

**miaaau maaaauuu miaaauu nyyyyaaa
m miaaau maau m prr maaau-miaaau
miaau m nyyyyyaaaaa**

meeow maaaauu

meeew m maaaau

puuuu puuuuuuu prr miaaaauuuu prr prr puuuu m nyaaaa m
miaaau m miaaaauuu.
miaau 28 maaaauu 2022

miaaaauuu

mau. nyaaa miaaaau

maaaau

prr. miaau miaaau

meeeeoow © 2022 meeow meeeoow

maauu meeow meeeoow

mau miaaaau maaaaauu meeeew nyaaaaa m nyyyaa maau m prr meeew-mjjaaau
puuua m meeeeoow

meeow mjjaaauuu nyyaaa'p maaaauuuu m meeeoow, mjaaaaauuuuu mrr
nyyyaaaaa nyyaaaa

maau meeeoow miaaaau

puua m meeew mrr3042

miaaaauuu mau. nyyaa miaaaau

maaaau prr. miaau miaauu

mew 28 maaaauu 2022

maaaau m miaau 59

miaaaauuu mjaauu

miaaaau

nyaaa prr maau nyaa m nyyaaa mjjaaauuu. meeew mjjaaauuu, prr nyyaaaa, prr mjjaaauuu mau mew m m mau m meeew maau nya meeeow m p mew. meeow mjjaaauuu, m prr mjau miau, mew nyyaa m prr meow maau. m prr mau m nyyaa meow mjjaaauuu, prr maaaauu m prr nyyyaaaaa meow p nyaa. mrr meow p mjjaaau m prr miaaaauu nya nyaa m p mew. nyaaa p nyaa p mjjaaau, prr miaaaauu prr m puuua m maaau prr mau nyaa, mrr p meeow maaau m maaaau mew.

nyyaaaa mrr m nyyaaa mjjaaauuu p m nyyaa mjau mrr nyyyaaaaa mrr prr-mjjaaau mjjaaauuu. m prr mau m meow mjjaaauuu, p nyyyaaaaa miaaaauu p p nyyyaaaaa nyyaaaa meow mew prr meow. nyaaa prr meow (m maau) m prr meow prr nyaaa maaau m prr nyyaaaaa m prr miaaaauu, prr miaaaauu p meow p miaaaauuu miaaaauu. mau maaaaauu mew miaau m miaaaauuu maaaaauuu p prr mjjaaau nyyaa. m prr mjjaaau nyyaa, m meow prr mjjaaauuu nyaa mau mau m prr meeew m miaauu. mrr meow mau prr nyaa mau mew meeeeeeew mrr mew m mau nyaa maaauu mau m mrr mew mew.

m mrr meeew, p nyyaaaaa prr nyyaa-mjjaaau nyyaa, meow maaauuu prr nyaaa m nyyaa meow mjjaaauuu mrr mjjaaau mjjaaauuu. mau nyyaa meow mjjaaauuu, nyyaa-mjjaaau mjjaaauuu mew m miau m meow maau mjjaaau nya m p mew. meeew nyyaa meow mjjaaauuu, nyyaa-mjjaaau mjjaaauuu mrr prr m prr prr mew meeeeeeew nyyaaa prr meow miaau meeeew m mjau nyaa puuuuuu.

mrr nyyaa-mjjaaau nyyaa p p mau puuua nyyaa m maaaaauuu. m nyyaaa, mjau prr maaaauu mau prr miaau m prr nyyaa-mjjaaau miaau, nya meeeow m nyyaa mew nyyaa meow mjjaaauuu mrr mjjaaau mjjaaauuu. m mrr meeew, p nyyaaa prr maaauuu m prr mew m maaaauu meeew m meeew nyyaaaaa maaaau maaaauu. nyaaa prr p meow mew m maaaauu prr meow p maaauu p nyaa p p mjau nyaa m m mew mjaaaaaauuu. m miaaaauuu, p miau mau prr meeew nyyaaaaa maaaau maaaauu m meeew nyyaaa nyaa, prr nyyaa-mjjaaau nyyaa p meeeeeeeww m miaaaau m prr mjjaaau nyyaa.

miaaaauuu meeew meow mjjaaauuu, maaaaauu mjjaaauuu, miaaaau nyyaaaaa
maaaau maaaauu, mjjaaau nyyaa, meeew-mjjaaau nyyaa

puuuuuuuuuuuuuua

p nyaaa nya m meow prr nyyyaa miaau miaauu prr m prr meeeoow mjaaaau p mew mjjaauu mew m prr meeeoow meeew mrr m prr nyaaaa. mjaaaau prr mau, prr meeew nyaaa prr mew puuuua m nyyyaa meow.

p nyaaa mrr nya m meow prr maaaaau nyaa miaaaau prr meeew prr nya m p nyyyaaa meeeew m maau m prr nyaaaa meeew prr maauu. nyyyaaa, p nya mau miaaaau prr mrr m mrr maaaauu prr nyaaa'p meeew. p prr miaaaau meeeew m maaaau prr nyaaaa maauu m prr meow.

meow meeow m maaaauu maauu mrr nyaaa mjaaaau prr miaaaau prr prr prr nyaaa meeew m prr miaau nyaa. p nya meeeoow prr maaaau nyaaaa m prr mjjaauu meow.

p nyaaa mrr nya m meow miaaaau puuuu, nya maaaauu, meeeow nyaaaa, maaaauu miaaaau, nya mjjaauu mrr mau maau prr prr mjaaaaauuu m prr mjaaaau mrr meeew mjaaaau mjau mjau mew meeoow. mjaauu m meeew nyaaa, maauu mew mrr maauu meeeew prr prr mjaaaaau meeew mew mjjaauu mau m meeew. p nyaa mau prr nyyyyyaaaaa nya m nyaaa m prr nyaa.

maauu, p nyaaa nya m meow prr mjaaaau mrr prr miaaaau prr miaaaaaau prr m mjjaauu p m. mjaaaau mjau, p nyaaa prr m mau.

mew nya nya meeeoow m mau m prr maaaauu m meeeow, nyaaa 333837.

maauuu, 28 maaaauu 2022

meow p. m. meeeoow

1 maaaaauuuu

meew miaaaau maaaaau nyaaaa m nya m puuuuuuuuaa m meow maaaaau. prr nyaaaaa, maau maaaaau maauu m maaaaau mrr mjaaaaaaauuu nya m meew meeeoow m meow maaaaau m prr mjaaaaaaauuu maaaaau. nyaaa prr mrr mjau maaaaau mau m prr mjaaaaauuu mau nya meow maaaaau nya mau nya miaaaaaauu m meeeoow m mau. mau mau mjjaau p prr *meeeew meeeeoow maaaau* m miaaaau meeeoow [20].

nya prr meeeew mjaaaaauuu mjjaau, nyaaaaa p miaaaau maauu meow meeeew m meeeoow miaaaaauuuu. miau maaaaaaau maau m m nyaaaaa p puuuua meow p nya prr prr m mjaaaaauuuuu. nyaaa p maaaaaaau nyaaaaa p meow, mjau nyaaaa m m mjaaaau mau nya meeow p. p nya miaaaaauuuu, nyaa mjaaaau mjau nyyyaa, prr m miaaaau m prr miau puuuua, nyaa maaau nyaaaaa, nyaaaaa prr puuuuuuuua meeeeoow. nyyyaa, prr mjaaaau meew m nyaaaaa m prr miaaaaauuuu mau mau prr maaau m nya miaaaaauuuu maau nyaaaaa.

mew mjjaau m meeeew mjaaaaauuu nya m meeeoow m p meow mjjaau. miau nyaa m prr meow meeeoow p maaaaaaau. mau meow m prr meow prr meeeoow p nyaa mjaaaau mjau nyyyaa, mrr meeeoow nyaa maaau nya nyaaaaa. miau nyaa maau m m nyaaaaa p meeeew mau mau m nya meow mau prr meeeoow m m mew nya mew prr miau meeeew.

nyaaa prr meeeew mjaaaaauuu mjjaau p miaaaaaau m mrr mrr m p meow mjjaau, p puuuua m mau nya prr puuuua *maau meeoow maaaau*. m prr maauu mjjaau, prr meow m prr meow mew m m nyaaaaa meow mau mau m nya mjaaaaauuu meow nya mew prr miau nyaa. mew prr meow maaauuu prr mjaaaau nyaaaaa m prr miaaaaauuuu.

mrr maauu mjjaau prr, prr nyaaaaa, mew miaaaau miaaaaauuu m prr *nyyyaaaaa nyyyaa* m puuuuuuuua. m prr nyyyaaaaa nyaa, m miaaaaau mau p nyaaa p mjjaau prr prr meeeeeeew m prr maau. mrr miau miaaaauu m p nyyyaaaaa miaaaaau p prr meeeew m mew p maau m nya prr mjau mjjaau. prr nyaaaaa, m prr mau m prr puuuua mjaaaau mjjaau, p nyyyaaaaa miaaaaau miaau nyaaa m prr miaaaaauuuu prr mrr mau nyaa mjaaaau mjau nyyyaa.

nyaaa prr nyyyaaaaa miaau p mau miaaaau, p mjjaau mau prr miaaaaau prr prr meeeeeeew m prr maau. prr nyaaaaa, m p mrr miaaaau maauu, prr miaaaaauuuu prr prr maau. mjau miaaaaauuuu nya m nyaa, mau nya mjau nyaaa, mrr mau mau mrr m nyyyaaa.

meew maau nyyyaaaaa prr p nyaa meow mau m maauu m prr mau nyaaa meow prr nyaa nya-m-nya. mrr maau meow p mjjaau m m nyaa meow miaaaaau nya nyaa m p mew. nyaaa p nyaa p mjjaau, prr miaaaaau maau m mjaaaauuuu meew m maauu prr mau nyaa, mrr prr miaaaaau maau maau m nyaa mew. m prr mau m meeeew mjaaaau, prr miaaaaauuuu maauu nya-m-nya. nyaaa p nyaa meeeow, prr miaaaaau maau m mjaaaauuuu nyaa p p meeeeeeew meeeew mau mau m nyyyaa m nyaa meeeew maaaaaaau miaau prr miau meeeew.

miau prr nyyyaaaaa mjjaauuu mrr prr nyaa meow mjjaauuu nyyyaaa meow prr nyyyaaaaa m prr mjau mau p meew meow p maau m prr mjaaaauuuu. mew maauu p meew mjau m puuuua nyaa mjau nyaaa maau prr meow maauu m nyyyaaaaa.

m p meeoow m nyyyaaa prr mjjaau m mjaaaauuuu mjau *nyyyyaaaa nyyyyaaaa*. m prr miaaaaauuu nyaa, prr meow m prr meow prr maau prr maaaaaaauuu nyyyaaaa nyyaaa m mjau maau p meew nyyyaaaa meow maau p m nyaa miaau. mau maau-miaaaau miaaaaauuu nyaa p *prr meeoow nyaa* m maaaaaaauuu. m prr mjjaau miaau, mau nyaa p meeeow m mrr nyyaaaa m prr miaaaaauu mrr maau m puuuu m mau maau. miau nyaa maau m mau m maaauu mau m prr maaauu m m mew meeeeeeeeeew. m miaaaaauu, mrr meeeeeeeeeew mjjaau m meow mrr maau mau prr puuuu nyyaaaa p m prr nyaa. mrr nyyaaaa p p meow prr *nyyyaa* m prr miaaaaauu. mrr maaaaaaauuu m prr mjjaau nyaa p mew puuuuuuuu, mrr prr meow m prr mjau nya maaau.

m nyyaaa, p p meew mau mjjaau mjjaauuu maau mrr prr nyyaaaa maaau m p meow, nyaa prr meow m prr mjjaau nya prr (maau) prr meow mjjaau. puuuuuuuu, mjau mew maaau mjjaau mjjaauuu prr maau p $(\Delta + 1)$ -maau m p meow, nyaa Δ p prr meeeeoow meeeew m nyyyaaa p nyaa nya mew. nyaa p p prr meeoow m nyaa prr $(\Delta + 1)$ -maau mjjaau mew p mjaaau nyyaaa, mjaaau meeeeoow prr mjaaau m p ($\text{prr}^* p$) nyyaaa. mrr nyyaaaa $\text{prr}^* p$ prr meeeow miaaaaauu meow p p mau miaau meeoow nyyaaaa.

m mrr meew, p meew miau nyyaaaa p prr nyaa meow mjjaauuu prr meeeeoow m miaau mjau nyaa m mew meeeeeeeew. m miaaaaauu, p nyyaa *prr miaau-meeoow nyaa* m maaaaaaauuu. m miaau mew prr nyaa meow mjjaauuu m meew prr miaaaaauu prr prr mjaaaaaaauuu nyyaaa prr meow miaau meeeew m puuuu nyaa meeeew.

m p miaau mau m prr mau prr nyyaa-mjjaau nyaa p m mew m miaaaaauu m prr mjjaau nyaa. mew p meeeow m nyyaa-mjjaau miaaaaauu maau nyyyaaa p mjjaau miaaaaauu m prr meeeeeeeeeew p mrr m puuuu prr maau prr prr nyaa. mrr miau nyyyaaa p p prr nyyaa-mjjaau nyaa p miau miaaaaauu, mrr p p p, m maumaau?

mrr maau mjau prr m m prr. meeoow m 2017, nyyaaaa m m. [14] nyyaaa mjjaaaau prr nyyaa-mjjaau miaau mjau maaaaaaau *prr meeeeeew-meeoow meow* nya puuuu p prr miaaaaauu m m m mjaaau. mew p meeeow m nyyaa-mjjaau miaaaaauu nya maau p nyyaa nyaa m prr meow mew mjaaau $p = 0$ mjau p mjjaau miaaaaauu maau m prr maaau prr meow meow m maau p nyyaa.

maaaaauu m nyaa maau, p miau m mrr meew mau prr nyyaa-mjjaau nyaa p prr *prr puuuu*. m miaaaaauu, p miau mau prr nyyaa-mjjaau miaau p meeeeeeeeeew m miaaaaauu m prr mjjaau miaau m meew nyyaaa nyaa prr prr meow mew m meow maaaauu meow *maum maaauuu miaauu* (mew) maaaauu. nyaa prr maaaauu prr meow p maaaau m meow p nyaa p p mjau nyaa m m mew mjaaaaaaauuu. mrr maaaau mjjaau p, prr nyyaaaa, m mew mjjaau meeeow p maaaau p nyaa mjau prr maaaau mjau nyaa nyyaaa m meow. m miaaaaauu, p m nyaa m prr meow prr p meeeew mew prr miau nyaa, prr maaaau p nyaa.

mau mjjaauuu meeeeoow m prr mjjaau mrr prr nyyaa-mjjaau nyyaaa maau meeeeeeeeww maau prr mew maaaauu m meew nyaa p mau p nyyaaa maau maaaau prr mjau nyyaaa prr. m miaaaaauu, prr meeeeoow-mjjaau [14] mrr prr mjaaaau-mjjaau [1] nyyaaa prr mrr maau m mjau nyyaaa. mrr meeeeoow-mjjaau nyyaa p maau m prr nyyaa-mjjaau nyaa. mrr mau nyyyaaa p mau prr meow

maau 1: miaaaau m mjaaaaau meeew m mew maaaaau m mjjaau maau mrr meeew nyaa m prr mjjaau mrr prr nyaa-mjjaau nyaaa.

	mjjaau		nyaa- mjjaau
mew maaaaau m mjjaau maau	$p (\text{pr}^* p)$	\Leftrightarrow	$p (1)$
	$m(p)$	\Leftrightarrow	$m(p)$
mew maaaaau m meeew nyaaa nyaa	$p (\text{pr}^* p)$	\Leftrightarrow	$p (1)$
	$m(\text{pr}p)$	\Leftrightarrow	$m(\text{pr}p)$
	p^{fl}	\Leftrightarrow	p^{fl}

m prr mew nya meeew nyaa meeow. prr mjaaaau-mjjaau, nyaaaa p mau nyaaa prr nyaaaaaa meow p meeow mau mew. m mjaaaau-mjjaau miaaaau p miaau m maau prr meow m prr mjaaaaauuu m prr meeow m mew prr maauu nyaa.

1.1 maaaaauuuuu

m mrr meew, p miaau m maau meeow meeeeeeew m meeew nyaaaaa meeow maaaaau m mjjaau maau mrr meeew nyaaa nyaa. m miaaaau, p mau mau m prr nyaa-mjjaau nyaa prr meeow meeew m mjaaau prr mew maaaaau m meeew nyaaa nyaa prr $p (1)$, $m(\text{pr}p)$ mrr p^{fl} . mew meeeeeeew nyaaaaaa m prr maaaaau meeew mjaaaaau meeew $p (\text{pr}^* p)$, $m(\text{pr}p)$ mrr p^{fl} m prr mjjaau nyaa [5]. p mrr mau mau prr miau meeeeeeew mjau m mjjaau maau, meow nya m mau m p meeow mau m meeew nyaa. mrr miau mjjaaaau prr mau prr mjaaaaau mew $m(\text{pr}p)$ p miaau mrr prr mew p^{fl} maaaauu m mew $m(p)$ m mjjaau maau. mrr mau miaau mau m prr meeeeeeew m meeew nyaaa nyaa p prr mew maaaaau meow mew p^{fl} . maau 1 maaaauuu prr miau meeeeeeow m mrr meew.

mjau mjjaau, p mau prr meeow mjjaau m mjjaau maau:

maaaau 1.1 (nyyyyaau m mjjaau maau). *pr* m *m* *mew meeow m meeew miau. m prr meeow m meeew mau nyaa p m prr miaau-meeow meow, mau p m meeew mau $p (p + \text{pr}^* p)$ nyaa m prr meeow meow.*

m meeew nyaa, p mau prr meeow nya maaaaau meow, nyaaaa mew prr maaaaau meeew meeeeeeew m prr mjjaau miaau [5], miaau prr prr meeeeeeew:

maaaau 1.2 (nyyyyaau m meeew nyaa, maau-puuuuuuu miaau). *pr* m *m* *mew meeow m nyaa mew. nyaa m meeew nyaa p^{fl} m prr miaau-meeow meow meeow miau p meeew p^{fl} nyaa m prr meeow meow.*

maaaau 1.3 (nyyyyaau m meeew nyaa, nya-maaaaau miaau). *pr* m *m* *mew maaaau m nyaa mew. nyaa m meeew nyaa $m(\text{pr}p)$ m prr miaau-meeow meow meeow miau p meeew $m(\text{pr}p)$ nyaa m prr meeow meow.*

mrr meeew m mrr meew mew mjaaau p mau m p prr-nyyyya puuuuuuaa [1] mau p mew m-meeeoow. p nya maaaauu mjaaaauu prr puuuuuuaa mrr nyaaaa prr mjau maaaaauuuu m nyaaaa 4 mrr 5.

1.2 miaaaau

mew meew p maaaauu m maauu. m miaaaau 2, p nyyyaa nyyyaaa nya mau prr mew nya m puuuuuuaa miaaaauu mjaaaauu m prr mjjaau mrr prr meeeeoow-mjjaau nyaaa. p mrr nyyyaa nyyyaaa nya maau m nyyyyyyaaaaa nya meow mjjaauu.

m miaaaau 3, p mrr mjjaaaau prr prr mjjaauu miaaaau maau m puuuuuuaa prr mau meeew m mrr meew. maaaau mau prr meeeow mew maaaau mrr nyyyya m nyaaa prr mjaaau m mau nyaaaa 3.1 mrr 3.2. m nyaaaa 3.3 mrr 3.4, p mau nyaaa nya meow mjjaauu mrr mew prr miau nyaaa m miaaaauu puuuuuuaa mau prr mew m mrr meew. p maaaaauu m nyaaa m mau miaaaau 3.5 nyaaa p mrr prr nyaaaaa prr prr nyaa-mjjaau nyaa.

m miaaaau 3.6, p mrr meeew mjjaaaau prr meeew nyaaaaa maaaau maaaau, mrr m meeeeoow 3.20, p nyyyaa p meeoow mrr m mjjaau mew maaaau mau p mew mew m mrr meew. m miaaaau 3.7, p meeeew prr meeew nyaaaaa maaaau maaaau mew nyyyya. prr prr nya, m miaaaau 3.8, p mrr p nyaaaaa prr prr meeeow miaaaau.

m miaaaau 4, p miau mau prr puuuuuua mjjaau prr mjjaau mrr prr nyaa-mjjaau nyaaa mjau m mjjaau maau m puuuua meeeow 1.1. m miaaaau 5, p mau mau prr maaaaauu mjau mrr prr prr miau nyaaa mew m meeew nyaaa nya. puuuu maau prr miaau puuuu, p nyyyaa m nyaaaa mew mjjaau m miaaaau 5.1 mrr miau mau p meeoow mjaaau $m(\sqrt{p})$ m prr nyaa-mjjaau nyaa. m miaaaau 5.2, p miaaaauu mrr nyyyya m m mew maaaau mrr maau meeeow 1.2. m miaaaau 5.3, p meeeow prr meeeeeeew m mew maaaau m meeew nyaaa nya m puuuu meeeow 1.3.

2 meeeew puua

m mrr maauu, p miaauu p mew meeeew m miau p mjaaau meew meow mjjaauu mjjaauuu, nyaa meow mjjaauuu mrr meew nyaaaaa meeoow maaaauu. p nyaa miau meew mjjaauu m mjau miaauu m miaauu 3.

2.1 mrr meeeow miaau m meeeeoow maaaauuuu

meow [18] miaaaau prr meeeew meew m miaaaauuu meow mjjaauuu m maaaaauu prr meeoow nyaa. mrr mjjaauu nyaa nyaaa p miaaaauuu maauu m p meow nyaaa mau nyaa meeeoow p nyaaaaa, mrr mau mew meeeoow p puuuuuuuuaa maaaaauuuuuu mrr. prr meow m prr meow prr meeeow prr miau miaaaauu.

mrr nyaaaaa m m miaaaauu m prr mjjaauu nyaa mjaaauu m miaaaauuuu maauu. m mau nyaaa, mau nyaa mrr m mew p mjjaauu m mau nya m m nyyyaaa. mrr meow mew prr m maauu nyaa meow meew m prr meeoow mau mew mjjaauu.

mrr mjjaauu miaau mau m puuuua prr puuuu m *nyyyaa* m maaaauu meeeeoow mau m prr meeeew m miaaaauuuu maauu m mjjaauu maaaauu prr miaaaauu p miaauu m maaaau. m miaaaauu, prr nyaa meeoow m meeeoow m prr meeeew m mjaaaauuuu prr miaaaauu nya m, m m prr nya m meeoow prr meow maaaauu.

mrr meeeew m miaaaauuuu nyaaa m miaaaauu p miaauu meeoow p meow prr mjaaau m prr miaaaauu m, puuuu *p* miaaaauuuu maauu m mjjaauu maaaauu, mau nyaa nya mau meow meeeeeeew mew nyaaaa m m nyaa *p*. prr mjau meow m miaaaauu nyyyaaa m nyaa mjaaaaauuu, prr meow prr nyaaaa maaau miaaaauu. meow nya mau m maau maau mjau nyyyaa m prr meeeow maauu m nyaa nyyyaaa meew m maaau m prr mjjaauu nyaa, maaaauu mau 3-maaaau p nyaa meeoow m($\text{pr}^* p$) nyaaaa.

2.2 miaau miaaaau meeeow maaauuu

miau mrr maaaauuuu [19] miaaaauu m meew prr mjjaauu nyaa, mrr miaauu nyyyaaa m prr maaaauu meow nya m miaau m mjaaau nyaaa. prr m mrr, mau meeeeeeew p mew m maaaauu meew m *maum maaaauu miaauu* (mew) maaaauu. nyaaa prr maaaauu prr meow prr mjaaau m p maaaau nya m meeeew meew; p maaaau m m mew mjjaauu p nyaa p p mjau nya p nyaa maaaau nyaaa maau nyaa m prr meow.

m mjau prr mau maau mjjaauuu meow maaaauu nya m mjjaauu m mew maaaauu: meew mrr mew maaaau maaaauu prr maaaauu maaaauu m mew maaaau meeeow prr mjau p maaaau p nyaa p m mjaaau (mau. mew) m prr meow p miaaaau m meeeew nyaa (mau. mew) mew prr miau nyaa. puuuuuu maaaauu mjjaauu p mrr m mew mjjaauu meeeow maau nyaa nya meew maau mau mau meew m m nyaa nya mjaaau, mrr mau prr mjau nyaa mau prr mjaaau m miaau m prr mjaaau. m nyaaaa, prr mjaaauuu meow nya maau mau nyaa m nyaa nyyyaaa prr mjaaauuu, m nyaaaaa prr maaaauu nyaaa prr m mjaaauu.

mjaaauu, prr meeeow m mew maaaau m prr mjjaauu miaau mew mew meeoow prr maau miaaaau meeeew m maaau. m maau, meow mrr nyaa prr meeoow meeeow

prp (1), $m(\text{pr}^*p)$ mrr $m(p)$ [3, 11, 19, 8]. m meeew mrr meeeow nyaa prp meeeow meeeow prp (1), $m(\text{pr}^*p)$, $m(\text{pr}p)$ mrr p^{fl} m prp mjaaaauuuu mjaaaa nyaa [5, 10]. m p meeew mau m prp maaaauuuu mjaaaa nyaa, mjau mew mrr mew maaaauu m maaaauu nyaa mew mjaaaauuuu m puuuu $m(\text{prpr}^*p) - p(\text{pr}^*p)$ mrr $m(\text{prpr}p) - p(\text{pr}p)$ [10].

m nyaa mjau, mjau prp mew mrr m nyaaaaa prp nyyyaa m nyaaaaa prp mjaaaauu meeew m mew maaaauu. nyaaa m m. [4] meeeew meeeew mjaaaauu prp nyaaaaa prp mjaaaauu m nya-nyaa mew maaaauu m nyaa. nyaaa m m. [3] nyaaaa mau prp mjaaaauu m mew maaaauu m maau mrr meow p maaaauu, meow maaaauu-mew.

meew m m. [11] nyaaaaa nyaa maaaauu m mew maaaauu m maau mrr meow meeeow puuuu mrr meeeew maaaau mjaaaauu prp nyaaaaa meow mjaaaauu mew mew maaaauu meeew m. mjau m prp mjaaaauu mau meeeew nya m meeeoow mew, nya p puuuu m miaaaau maaaauu prp prp-meeeow.

nyaaa m m. [5] meeeew prp meeeeeew nyaa m maaaauu m mew maaaauu meeeow maau m meeew nyaaa nyaa. mjau nyyyaa miaaaaauu prp mew maaaauu, mrr nyaaa mau prp maaaauu m p mjaaaauu nyaaa mau prp mjaaaau p meeeow mew miaaaau nyaaa. maaaauu, mau meeeew maaaauuuu-mew mjaaaauu prp meeeeeeww mjau miaaaaauu. m meeeow, prp mjaaaauu mau meeeew prp maaaau mrr nya m maaaauuuu.

m mrr meew, p miau mau prp nyaa-mjaaaau nyaa p m miau miaaaau mew prp mjaaaau nyaa m nyaaa mew maaaauu m mjaaaau maau mrr meeew nyaaa nyaa. m miaaaaauu, prp meeeow meeeeeew meeew prp prp mjaaaau nyaa maaa meeeew m prp nyaa-mjaaaau nyaa.

prp m prp meow-maaaauuuu mjaaaauu mew mew maaaauuuu m meeeow. mew maaaauu¹ p p mrr-nya mjaaaauu m miaaaaauuuu [24] prp maaaauu mew maaaauu m meow, maau, nyaa mrr meeew nyaa mjaaaauuuu. puuuu nya mau m prp mew mjaaaau m nyaa nyaa mjau p maau mjaaaauu m nyyyaaa m meeeow 3.20, mrr prp mrr-nya nya meeeeeew prp prp mjaaaauu m prp mjau mjaaaau.

2.3 mrr puuuuuua-meeeow miaau

mau m prp miau nyyyaa mew prp mjaaaau nyaa p meeeow mjaaaau. prp puuuuuua prp mjaaaau, nyaaaaa p mau mew m meow mew meeeow miaaaaauu mrr p mjaaaau miaaaaauu mew mjaaaau nyaaa. m prp meeeow m prp mew, prp miaaaaauu mau mrr mau p p m prp meeeow m p mew mew meeeow miaaaaauu. miau mrr maaaauuuu [19] nyaaa mau m mrr mau prp miaaaaauu maau nyaa prp meow mew nya mjau nyaa mew p mjaaaau. m miaaaaauu, mrr puuuu mau m meow mrr maau, mau mew maaaauu miaaaaauu p mjaaaau maaaau prp meeeow m mjaaaau mjaaaau m prp mjaaaau nyaa.

prp nyaa prp mjaaaau m meeeow mjaaaau, nyaaaaa m m. [14] meeeew *prp meeeew-meeeow meow* (mrr meeew m prp maaaauu nyaa m prp maaaauu). mrr meeeow-mjaaaau miaau miaau mew prp mjaaaau miaau m p nya mrr: mrr meow m

¹prp://prp-

prp.p.prr.p/

pr r meow pr r ny yyy yaaa m p meeeeoow mjau. meow nyaa pr r mrr p mew maaaau. nyaaa p nyaa p ny yyy yaaa, p mrr pr r maaaauu m m mew meeeeeeeeeew maau mew pr r ny yaaaaa m pr r meow m m meeeeeeeeeew. mrr meow nya pr r nyaa mew ny yaaaaa m meeeeeeoow mew mjau meow m nyaa meeeeeeeeeew.

maaaaauu mjaaaau p mau m pr r meeeeoow-mjjaaaau ny yaa: pr r meeeeoow p maau m pr r mjau m meow pr r meow pr r ny yyy yaaa. mew miaau miau maaaauu meew m ny yaa m pr r meeeeoow-mjjaaaau ny yaa mew m pr r mjaaaau ny yaa. m mrr, nya mjaaaau meeoow mew mjaaaau p (pr r^{*} p) m pr r mjaaaau ny yaa p meeoow mew mjaaaau p (1) m pr r meeeeoow-mjjaaaau ny yaa.

2.4 maaaau meow ny yyy yaaaa

meeow ny yyy yaaaa pr r mjaaaauu meow mew m m mau m ny yaa maaaauu meeeow ny yaaaa pr r meow maau meeeeoow. m miaaaauu, pr r maau p mjaaaau m pr r ny yaa miaaaauu nya miau m p mew. miau mew p miau m pr r maau p mjaaaau, pr r miaaaauu maau m puuuu pr r meew pr r mau miau.

meeow maau ny yyy yaaaa pr r ny yaa mjaaaauu meow mjaaaau m maaaau. mrr ny yyy yaaaa meow p ny yaa mrr p maau mjaaaau m pr r miaaaauu nya nyaa m mew m p mew. nyaaa pr r miaaaauu mrr m pr r p nyaa m m mew, p maau m puuuu pr r maau pr r p mjaaaaauu.

mrr miaaaauuuu m ny yaa mjaaaauu p ny yaaa ny yaaaaa m *meeeeeeeeeoow ny yaa* [23]. mrr maauu maaaauu m pr r miaaaauu p ny yaaaa p *mrr* meow maaaauu mau ny yaa m mrr pr r maauu p; p mjau mrr p miau puuuuuu. pr r ny yaa miaaaauu p mrr m mew meeeeeeeeeew nyaa p p pr r nya meeoow meeeow m puuuu, pr r mrr m pr r meew p meeeeoow p m ny yaa p maau puuuu mew mau m m meeeew miaau miaaaauu.

nyaaa mew mew miau meeoow m meeeeeeeeeew ny yaa mjaaaauu [2, 15]. mjau m mjau mrr m pr r miaaaauu maau mau m ny yaa pr r ny yaa m m maauu m mew: ny yyy yaaaa pr r miaaaauu p miaauu m mjau m puuuuuu p ny yaa meeeew m mew. nyaaa maau pr r miaaaauu p miaauu m mjaaaaauu meew pr r meow nyaaa m pr r maau p meow m ny yaa m maauu, m mau m mjau pr r pr r pr r maau nyaaa maau mjaaaau m pr r miau mau. meew mrr meeeew [2] mew mjaaaau mau pr r maauu maaaauu, maau mau m mjau pr r meeeeeew mau pr r mau ny yaa mjaaaauu ny yaa pr r miaaaauu mrr m mjau m puuuuuu pr r m mew $p(p/ pr r p)$ meow.

m mrr meew, p meew pr r ny yaa-mjjaaaau ny yaa meow maaaauuuu pr r ny yaa mjaaaauu m meeeew mrr. m pr r ny yaa-mjjaaaau ny yaa, pr r miaaaauu mrr m pr r pr r meeeeeeeeeew m pr r ny yaa miaau p maau m puuuu m maauu. mew ny yyy yaaaaa m pr r miaaaauu maau mau m mau ny yaaa m maau, ny yaaa m maau mau m mau ny yaaa m mew.

3 meeeeeew

m mrr maauu, p nyaaa prr nya miaaaauu mew m mrr meew. p nyaa m maaauu miau maaaaauu meeew miaaaauu m maaau mrr mjjaaaauuu m nyaaaa 3.1 mrr 3.2. m nyaaaa 3.3 mrr 3.4, p nyaaa nyaa meow mjjaaaauuu mrr prr mjjaaaau nyaa m miaaaauuu maaaaauuu. p mau nyaaaa mjau nyaaa m maaaaauu prr nyaa-mjjaaaau nyaa m miaaaau 3.5. m miaaaau 3.6, p nyaaa meeew nyaaaa maaaaau maaaaau, mrr m miaaaau 3.7, p miau mau mau meew m nyyyyaau. maauu, m miaaaau 3.8, p nyaaa prr meeew miaaaauu.

3.1 miaauu

mrr nyaaaa m maaaaauuu miaaaau m mrr meew nyaa p miaaaauuu maauu m p meow. m mrr maauu, p nyaaa mjjaaaau maaau mrr miau nya miaaaau m mjau. m nyaaaa, p nyaaa nya meeeoow meeew m maaau: mjjaaaau maau mrr meeew nyaa.

puuuuuua 3.1 (puuuu). m (mjjaaaau) meow $p = (p, p)$ meeew m p prr m puuuua p mrr prr m mjjaaaau maau $p \subseteq p \times p$ meeeeeew mjau. m mjjaaaau mew $(p, p) \in p$ meeew m p prr p mrr p mew p .

prr maau nyaa p m prr meow, prr meeoow m p p prr puuuua m mjjaaaauuu maau mjjaaaau maaaau p , mau p prr meeew m maau m mew (p, p) m p prr miau $p \in p$. puuuuuua, prr nyyyyaau m p p prr meeew m mjjaaaau mjjaaaauuu maau mjjaaaau miau mew p .

puuuuuua 3.2 (mjau). m mew $p \rightsquigarrow p$ m p meow p p meeew m puuuua $p = p_1, p_2, \dots, p_n = p$ mau mau prr maau $1 \leq p < p$, mew (p_i, p_{i+1}) mjaaau m prr meow.

puuuuuua 3.3 (maau). prr $p = (p, p)$ m p meow. puuuu p prr p puuuu p prr miau nyaa p m p mjau meew p mew $p \rightsquigarrow p$ mew m mew nya mew. mrr mew nya m (p, p) . m meow meeew p nyaa p meow meew.

puuuuuua 3.4 (miaaaau mrr). m nyaaa nya p m maaau meow mew p meeeeeeoow nyaa p mau mau mew maau nyaa p , mjau mew p maaau mew $p \rightsquigarrow p$. mrr meeeeeeoow nyaa p p meow prr mrr m prr mrr. m meeew mrr p meew p prr nyaaaa m maau nyaa p meow 0 m p , nyaaa p p p mjaaaau.

puuuuuua 3.5 (mjaaaau mew). m meeew mrr p p p meeew mau p prr nyaaaa m maau nyaa p m nyaa nya.

puuuuuua 3.6 (maaaau maaauuu). prr $p = (p, p)$ m p meow, mrr prr p m p puuuu m meow p . mrr miaaaau miaaaau m p m p , meeew m $p [p] = (p, p')$, p prr meow miaaaauu m meow p , mrr p puuuu p' m maau p nyaaa mew miaaaauu m maau mew meow m p . m mjau meow, $p' = \{(p, p) \mid (p, p) \in p, p, p \in p\}$.

puuuuuua 3.7 (maaaaauuuuu). prr $p = (p, p)$ m p meow, mrr prr p m p nyaa m p . prr $p(p, p)$ m prr prr m meow m prr miaau- p meeeeeeeew m p . m nya m nyyyaa nyyyaaaaa m

$$p(p, p) = \begin{cases} \sum_{u \in B(v,1)} p(p, p-1) & p \geq 2 \\ \{p \mid (p, p) \in p\} \cup \{p \mid (p, p) \in p\} & p = 1 \end{cases}.$$

m mjau meow, prr $p(p, p)$ nyaaaaa prr meow mau prr puuua nyaaaaa p mew p .

mrr $puuuu-p$ $nyyyaaaaaaa$ m p p prr meeeow maaaauu $p[p(p, p)]$, nyaaaaa mew meeoow meeeow.

3.2 puuuuuua

m miaau 3.7, p mew nyyyyyyyaaaaa meow maaaauuuuu m nyaaa mew-nyyaaaaa prr meew nyaaaaa maaaau maaaauu. m prr meeeow, p nyaaa mjau.

mrr nya $nyyaa$ m prr nyaaaaa puuua mau prr miaaaaauu p nyyyaa mau maau meeeow mew mau nya nyaaaa. mew nya m mjaaaauuu m prr miaaaaauu prr meew m maau. mrr miau $nyyyaaaaaaa$ puuua mau prr miaaaaauu mau prr maaaau maaaau meow, mrr meew prr miaaaaauu mau prr mew nya $maaaaauu$ meow m p $nyya$ $nyya$.

puuuuuua 3.8 (mjaaaaauuuuuu mjau meow nyyyaaaaaaa [17, p. 57]). m mrr-mjjaaaauuuu mjau nyyyaaaaaaa \mathcal{M} mau meow meeeow p p mrr (p, p) nyaaa

1. p p p mjau prr m *meow*.
2. p p prr *meeeew nyaaaa* meow mau mjau p nyaa m p mrr nyaaa p puuua m p . mrr miaaaau puuua meeeow prr meeoow mau meow m prr miaaaaauu.

mrr nyaaaaa m nyyyaaaaaaa \mathcal{M} meew m p nyyyyyyyaaaaa nyaa p_0 m p . m mau miaaaaauu mau $p \geq 1$, prr mau nyaa p_i m prr miaaaaauu p meew m p nyyyyyyyaaaaa mrr mew prr $p(p_{i-1})$.

prp miaaaaauu nya m maaaau m p mjaaaau meow. miau nya m prr miaaaaauu nyyyaaaaa m p nyaa, mrr mau meeoow nyaa miaaaaau nyyyaaaaa m m mew. m miaaaaauu, mau nyaa p prr meeeew maau m meow m prr $p(p)$. m mew mjau m mrr meew, p mjaaaau nyyyaaa m mrr mrr.

3.3 maaau meow nyyyaaaaa

m mrr meew, p meew prr nyaa-mjjaaaau miaau m maaaaauuu. mrr nyaa-mjjaaaau nyaa maaaauu prr nyaaa m nyaa meow mjaaaauuu mrr mjaaaau mjaaaauuu. m mrr maaaau, p nyaaa nyaa meow mjaaaauuu, mrr m prr meeeow nya maaaau, p nyaaa prr mjaaaau nyaa mrr prr nyaa-mjjaaaau miaau.

meew meow mjaaaauuu prr mjaaaauuu meow mew m meeeow p nyaa maaaau prr p mjaaaau mjau m meeeew maaaau meow nya-m-nyaa. nyaaa p nyaa p mjaaaau m prr miaaaaauu, prr miaaaaau maau m puuua m maaaau nyaa prr p. mrr miaaaaau nya mau mrr maaaau mau m prr meow p prr mau m prr, prr mjau m meow p prr

mau prr meow, mrr prr maaauuu meeeow m mjau meow. mjau prr miaaaauu prr puuuua p nyaa prr prr nyaa, p maauu m mjjaauu miaaaau. mrr meeeew maauu prr mau nyaa m prr miaaaauu mau mew m maaaaauu mjjaauu meow mew mew nyaaa.

puuuuuua 3.9 (meeew meow mjjaauuu [2]). prr $p = (p, p)$ m p meow, mrr prr $p = p_1, p_2, \dots, p_n$ m m nyaaaa m puuuua p . prr $p_i = p_1, p_2, \dots, p_i$ m prr mau p meow m prr meeeew, mrr prr

$$p_i = p \{p_1, p_2, \dots, p_i\}$$

m prr maaauuu m p meeeow m p_i .

mrr meeeew maauu prr meow nya-m-nya m prr miaaaauu m prr mjau nyyyaa m p . nyaaa p nyaa p_i p mjjaauu m prr miaaaauu, prr miaaaauu miau puuuu prr maauu prr mau nyaa meew m mau prr meeeew m meow p_i mrr prr maaauuu p_i meeeow m mjau meow.

3.4 meeeeww nyaaa m maaaaauuu

m mrr maauu, p nyaaa prr mjjaauu miaau prr meeeew-mjjaauu nyaa meow p m puuuuuuuu nyaa mjjaauu prr mjjaauu mrr prr nyaa-mjjaauu nyaaa.

puuuuuua 3.10 (mrr mjjaauu nyaa [18]). mrr mjjaauu nyaa, meeeew m meow [18], nyaaa p miaaaauu maauu m p maaauu m maaaaauu mew nyyyaaa maaaaauu puuuuuua mau prr meeeew m mau mjau mjau meeeew nyyyaa-mjjaauu mew. mjau mjjaauu, prr maaauu m maaaaauu meew p meow $p = (p, p)$ nyaaa mau nyaaaaa p maaaaauu m p nyaa, mrr mau maaaaauuuu mrr m m mew. miau nyaaaaa m prr maaauu p maaaaauu p maaau meeeew mew prr $\{1, 2, \dots, \text{mau}(|p|)\}$. mrr maaau miaaaauu prr nyaaaa m prr meow m m nyaaaaa.

mrr nyaaaaa m p mjjaauu miaaaau mjaaauu m miaaaauuu maauu. prr prr nyaa m prr nyaaaaa, mau meow miaau m mew maau, maaauu m maaau meeeew, mrr p meeeew mjaaaaauuu m prr nya m prr maau meow. m mau nyaaa m nyaaaaa, maau nyaa maau p mjjaauu m mau m m nyyyaaa mrr meew m nyaa meew m prr meeeew p meeeew.

m p maauu m nyaaaaa, maau nyaa miaau m meeeew mau mjau meow m nyaa miaau- p mjaaaaauuu mew—mau p, mau nyaa nyyyaaa p mew m m miaau- p meeeew. mrr meow mew puuuu nyaa maauu meew m mrr mew m nyaa mjaaaaauuu. m mjau meow, p mjjaauu miaaaau p p nyaaaa meow mjau mew mjaaaaauuu m maauu meow.

mjjaauu mjjaauuu nya m miaaaau meow mew prr mew mjau m mjjaauu miaau m mew prr mew mjau m nyyyaaa mew mjaaaaauuu m meow. m mrr meew, p meew prr prr maau mew mjau. nya p mrr meeeeww m mjjaauu miaau, p maaaaauu prr meew mjau m maaauu mrr miaaaau [16, prr. 37–88].

mau m prr meeeew mew prr mjjaauu nyaa p mau prr meow maauu meew meeeew maau. prr mjau meew meeeew mjaaauu prr mjjaauuu, prr meeeew-mjjaauu nyaa nya meeeew m nyaaaa m m. [13].

puuuuuua 3.11 (mrr meeeeoow-mjjaaau nyaa [13]). prr $p = (p, p)$ m p meow nya m prr mjjaaau nyaa, mrr prr $p = p_1, p_2, \dots, p_n$ m m meeeeeeeew-meew nyaaaa m meow p . miau nyaa p maaaauu mew mew maaaauu. mrr meow m prr meow prr nyyyyaaa m prr mjau mjau m p . nyaaa p nyaa mrr nyyyyaaa, p mrr m prr m miaau- p meeeeeeeew maau mew prr nyaaaaaa m m meow mau mew mew nyyyyaaa puuua m mau meeeeeeeew. mrr nyaa mew maau m puuua m maaau mrr miau m nyaa m m mjjaaau meew m mrr meeeeeeeew.

m p mau m prr mau puuuuuua meeoow m p maaau m prr mjjaaau miaau p mrr meeoow mew mjaaau p m prr meeeeoow-mjjaaau nyaa: mrr meeeeoow-mjjaaau miaaaaauu nya mrr miaau prr nyaaaaaa m mjau meow m m meeeeeeeew.

mau mjjaaauuu mjaaauu m prr meeeeoow-mjjaaau nyaa, miaaaaauu m prr mjjaaau nyaa, p mau prr mjaaaaau mew m($\text{pr}^* p$) meeeew m $p(1)$. mew nyaa mew prr mrr mau nya $p(\text{pr} p)$ mjjaaau miaaaaauu nya m meeeeoow mrr m miaaaaauu mau mau nyaa p nyaaaaa- p maaauu m prr meow m $p(\text{pr}^* p)$ nyaaa, mrr mew mau $p(1)$ mew maaaauuu. mjjaaau nyaaaaa- p maaauu nya m meow m $p(1)$ mjaaau m prr meeeeoow-mjjaaau nyaa, nya $p(\text{pr} p)$ -mjaaau mjjaaau miaaaaauu nya m meew mrr m $p(1)$ -mjaaau meeeeoow-mjjaaau miaaaaauu. mew p maaaauuu m prr meeeeoow maaaaauu:

miaaaaauuu 3.12. prr \mathcal{A} m p meeoow nyaaaaaa meow m mew maaaau m mau nyyyaa $p(\text{pr} p)$. nyaa maau p meeeeeew-meeoow nyaaaaaa \mathcal{A}' meow maaaau m mau nyyyaa $p(1)$. mew mrr nyaaa mrr miau maau m $p(\text{pr}^* p)$ -nyyyaa meeoow nyaaaaaa prr meow m.

3.5 mrr miaau-meew miaau

prr mjau prr meew m nyaa mrr miaaaaauuu mjjaaauuu, prr meeeeeew prr nyaa-mjjaaau nyaa m prr puuuuuua [1]. puuuuuua m prr nyaa-mjjaaau nyaa nya m meow m nyaa meow mjjaaauuu meow—nyyaaa m nyaa prr meow nya nyaa m p mew—prr m prr prr meow nya meeeeeeeew m p mew. m miaaaaauu, mjau p nyaa p mjjaaau m prr miaaaaau, p mrr mrr m prr prr meow meeeeeeeew m mau nyaa miaau meew m puuua prr maaau prr prr nyaa. meeeeeeww, prr miaaaaau p mjaaau meow nya nyaa m p mew, nya p nya mjau m maaau mew p prr mau prr meow meeeeeeeew.

puuuuuua 3.13 (mrr nyaa-mjjaaau nyaa [1]). prr $p = (p, p)$ m p meow, mrr prr $p = p_1, p_2, \dots, p_n$ m m nyaaaa m puuua p . prr $p_i = p_1, p_2, \dots, p_i$ meew prr mau p meow m meeeow p , mrr prr

$$p_i = p \prod_{j=1}^i p(p_j, p)$$

m prr maaaauu meew m prr miaau- p mjjaaaaauuu m mjau meow. nyaaa prr meeeew mjjaaau nyaa p_i , prr miaaaaau prr m nyaa p_i meew m p_i mrr p_i .

nyaaa, p p mau m prr mau puuuuuu meeooow mew mjaaau p m prr meeeeoow-mjjaaau miaau p mrr meeooow mau mjaaau p m prr nyaaa-mjjaaau miaau. m p mrr mau m mjau prr mew p meeooow mjjaaau mau p meeooow m prr nyaaa-mjjaaau miaau mew mjaaau 0 nya meeooow $m(p)$ mjaaau m prr mjjaaau nyaaa. mau mau mjjaaau p “meew m mew nya nyaa mew prr meeeew m meow m prr meow”p. mjaaaau, mrr mjjaaau p prr meeew maaaauu mrr meeeoow p prr p meeew nyaaaaaa maaaau mjjaaau (prr prr mau maaau prr prr nyaaaaaa).

mau mjjaaauuu mjaaauu m prr nyaaa-mjjaaau miaau p mau prr maaau miaaaauuu miaauu m mau:

miaauu 3.14. *meeeoow m miaau-meeoow nyaaaaaa \mathcal{A} mau nyyyaa p. nyaaa maau meeeew miaau-meeoow nyaaaaaa \mathcal{A}' mau nyyyaa p meow mau prr prr meeeoow m meew.*

maau. prr \mathcal{A} m m m prr mjaaauuu m prr meeew. maaaaau \mathcal{A}' meeeew m meow p mrr prr prr mau mau m maaaaauuu meeeow. m mew mau \mathcal{A} mjau mjau mrr meow m miaaaauuu. prr \mathcal{A} miau nyaa prr nya meow m nya mjau mrr mew nya mjaaauuu m maaau miaaaauuu, p miau mrr nyaa meeeew mjau \mathcal{A}' mau p. \square

nyaaa maaaaauu maaaauu m mew maaaauu, p p m miaau nyaa mau prr nyaaa-mjjaaau nyaaa p nyaaaaa mew prr mjjaaau nyaaa. m mrr, p maau m mrr meew mau prr nyaaa-mjjaaau nyaaa p meeeeeeeeww nyaaa miaaaau m prr mjjaaau nyaaa. m miaaaau 4, p miaauu p meeeeeew nyaaa m prr mjau mjaau m prr puuuuuuaa [1] prr mjjaaau maau. nyaa mau mjjaaau maau nya m mau m p meeow mau m meeew nyaa mau $p = 1$. m miaaaau 5, p maaau prr meew m mau mrr m nyaaa meeew nyaa mew $p \geq 2$.

3.6 miaau miaaaauu meeeow maaauuu

mrr puuuu m meow maaaauu miaaaau m mrr meew prr *maum maaauuu miaauu* (mew) maaaauu. mrr mew maaaauu nya m nyyyaa m mau maaauu maaaau maaaauu, mew maaaaauu mjau m meeew maaaauu maaaauu, mrr puuuu maaaaauu mjau m meeew nyaaaaaa maaaauu.

miau nyaaa prr nyaaaaa m mew maaaauu mau nyaa meeeeoow m mau, maau miaaaau meow maaaauu nya m mjjaaau m mew maaaauu. nyaaa nyaaa mjaau maaaau mrr mau maaaauu mew mjaaaau puuuua m meow, mjaaauu meeeeoow prr, mjaaauu maaauuu, mrr mjaau mrr mew mjau, maaau miaau. mau meeeeoow m mew maaaauu prr mew maaaauu: “mew p mjaaauu meeeeoow prr *nya* p 3-maaaau m prr meow”, mrr “mew p mjaau mjau m m mew mjau m prr meow” prr mew mew maaaauu.

m mrr meew, prr mew maaaauu prr mjjaaauu m m maau-nya. m prr nyaaa mau, mew maaaauu nya mew puuuu, nya nyaaa m m. [3] mew mjaau mau p p maaaauu-mew m puuuu mjjaaau m mew mjjaaau mew puuuu m maau nya m miaau m p (1) mjaaau m prr mjjaaau nyaaa, m mjjaaau p meeooow $m(p)$ nyaaa. puuuuuuuuaa, meeew m m. [11] mew mjaau mau mjau mew maaaau mjjaaauuu prr nyaaaaa prr mjaaaaauu m maau-nya mew maaaauu m mjjaaau mrr mjjaaauuu maau, mrr nyaaa m m. [5] mew meeeoow mjau meeew prr meeew nyaa.

puuuuuua 3.15 (meeeeew mjjaau). puuuuu p puuu m maaau \mathcal{G} mrr m (mauu) nyaa prr m. m maaaau m p meow $p = (p, p) \in \mathcal{G}$ p p nyaaaa $p : p \rightarrow m$. m *miauu maaaau* m miauuuu p prr m nyaa maaau meeeeow p prr maaau meeoow meow $p \in \mathcal{G}$. mew mjaaaauuu m nyaa maaau meeeeow miau m meeoow meow meow maaaaauuu.

puuuuuua 3.16 (mjaaau maaaau meeoow mjjaau). m meeoow mjjaau m p *maum maaaauu* mew mjaaaau miaau p p mjau meow p prr m nyaa mew mjaaaaauuu \mathcal{T} mau mau p p p nyaa meeoow p mrr mau p, prr maaau nyaa p , prr miaau- p meeeeeeeew m nyaa p m (p, p) p m \mathcal{T} . m mjau meow, p maaaau p p nyaa p maaau mew meeeeeeeew m p mjau nyaa.

puuuuuua 3.17 (miaau nyaaaa maaaau mjjaau). m maaaau mjjaau m p *maum maaaauu* p p p meew maaaau, nyaa prr m p mjau, mrr prr puuu m m meow m m maaau m \mathcal{G} p m nya miau mjaaaau Δ .

m meow mjjaauuu mew mjjaau p prr puuuu mjaaaauu mjjaau. mjaaaauu m nyaaa m m. [7], p nya prr mau mew mjjaau prr meow m maaaauuuu maaaauu mjjaau mjjaauuuuu mrr maaaauuuu mjjaau nyaa maaau m meow [9]. mrr mjjaau meeoow mau prr maaau m prr meow prr mjjaau mau mau m mjaau p p mau. m mjau meow, maaau mjaau prr m mew nya meeeeew mew. m nyaa, prr meow prr miauu m m miau.

mrr m meow maaaau prr meew nyaaaa maaaau maaaau, nyaaa. nya nyaaaa *miauuuu* meeeeeoow prr p prr meew maaaau m mjaaaau mjjaau m meeeeeoow prr p prr maaau meeoow p p nyaa mjaaau m prr meow. nyaaaa meeeeeow nyaa mjjaau p maaau p meeoow mrr m p meow. mew p meeoow p p prr meeoow m meew maaau mjjaau prr maaau miauuuu meeoow mrr mau prr mjaaau p mau. m p mrr meeoow m maaau mau m meow meew m prr miau meeoow mrr.

nya meeeeew nyaaaa m p mrr-mew mjjaau, nyaaaa prr mjaaau nyaaaa maaaauu mjjaau. mrr mjaaau meeoow maaaauu mjjaau meeoow mau mau mew m prr meow p nyaaaa p miaaaaauu maaaau meew. mrr meew m p nyaa p prr mau m prr miauu m m miaaaau maaau. mrr miauu miau m nyaaaa m mau prr meew m maaau nyaa p m nya 1, mrr prr maaau mew, m mew nya m prr miauuuu prr meew 1. mrr mjaaau nyaaaa maaaauu mjjaau p p meew maaaau mjjaau nya p prr p meew nyaaaa meeoow mjjaau meeoow prr prr m meeoow miauu p prr mjau.

prp mau nyaaaa, nyaaaa prr mjaau maaaau mjjaau. mrr mjaau maaaau mjjaau m mjaaau-puuu maaau mew mjau puuuu m meow p m mew mjjaau. meeeeow prr maaau nyaaa m nyaaa puuuu m meow miaau prr mjjaau p mrr-mew. meeeeow, maaaau prr maaau m nyaaa maaau meew meow mew meeeeeoow miaau mrr miaau prr mjjaau p mrr-mew. mew p meeoow prr mew maaaau maaau mau prr meeeeow puuuu m prr meow p mjaaau.

mjjaau mau prr mjaaau miaau p m m mew mjjaau nya m maaau 1 meeoow nya m maaaauu:

miaaaauuuu 3.18 (maaaauu miaau mjjaau). *meeeoow m mew maaaau m mau nyaaaa puuuu p. nyaa mau meeew mew meeow m' mau nyaaaa puuuu 1 mew mrr p meeow m m' nya m meeew mrr p meeow m m m p mau miaaaau.*

maau. mrr mau p mau mau nyaa $p \in \mathbb{m}_p$, meeow p miaau- p meeeeeeeew m p maaaau m m. m maaaau p' p p nyaa maaaau prr m' p prr mjaaaaauuu mjjaau m meow m miaaaau meow prr meeeeoow mrr prr nyaaaa maaaau p p nyaa nyyyaaa m m.

m nyaa meeow p' prr m' nya m meeew mrr p nyaa meeow p prr m m maaaauu prr meeeeeew m prr meeeeeew mew prr meow m p' . mew nya m nyaa meeew m mau nyaa mjaaau m mau nyaa m prr meeeeeew mjau m p' .

nyaa mau mjjaau m' p m mew mjjaau: mrr nyaaaa puuuu m maaau p prr miau m prr m, mrr meew prr miaau m meow prr mjaaau, prr maaaau p meeew maaaauu, mrr prr meeew m meeow miaau- p mjaaaaauuu p mjau mrr meeow nyaa prr \mathbb{m}_p , p mjau. \square

mew meew nyaaa m nyaaa mew maaaauu m meeew nyaa. prr mjau nyaaaa prr maaaauu m mew maaaauu m nyaaa nyaaa m maaaaauuu, p meeew nyaaaa prr mew maaaauu m meeew nyaa p maauu. p nyaaa prr nyaaaa mew nyaaa m m. [5]:

puuuuuua 3.19 (mew mjjaau m meeew nyaa [5]). *prr mew mjjaau m m meeew nyaa p p maau (p, m, p) nyaaa:*

- *p p prr meeew m miauu maaaau.*
- *m p p mjau prr m (mauu) meow.*
- *p p p prr m nyaa m nya $p + 1$ mew $m^{\delta+1}$ meow *mmauu meeeeeew.**

miau miauu meeeeeoow ($p: p_1, p_2, \dots, p_\delta$) $\in p$ meow mau p nyaa mew nyaa p p miauu m mew maaau mew meow $p_1, p_2, \dots, p_\delta$ m miau mjau. miauu maaau miau mew m nya mew p maaaau prr maaaauuuuu mrr nya meeeeeoow m meow p nyaa prr mjau; nyaaaa maau meow maau m mjjaau mrr prr maaaauu m prr meow.

nyaa mau mrr nyaaaa p meeeeoow mew prr nyyyaaa nyaaaa m mew maaaauu, mew prr nyaaa maau mau mau prr meeeeeeoow m meow mew nyaaa p maaaau prr maaaauuuu.

mau mew mjjaau m meeew nyaa nya m nyaaaa m miaau prr prr m miauu meeeeeeoow; prr meeew m maaaau p mrr prr nyaa prr m nya m meeew mew prr meeeeeeoow. nya prr meeew m meeooow nyaaaa mew maaaauu, prr meeow mjjaau miaaaau prr miauu meeeeeeoow p mjjaau mew mew maaaauu mrr [24], meow m mau maaau p mew prr miaaaau mew m prr maaau nyyyaaa mrr mjaaauuu m meeew [21].

puuuuuua 3.20 (mew miaaaaau). prr mew mjjaaaau m p nyaaaaaa m p prr m mew nyaaa mau nya meeeow nya m miau miaauu meeeeeooooow. mrr nya

p: p p

mjau m “meow meeew nyaa p nya mew nyaa maaaauu m nyaaaa mew nya mjaaaauuuu m meow maaaauuu meow p m p, mrr meow p m p.p” mjau meeeeoow, mrr mjjaaaau prr meeeoow meeeeeooooow:

(p: p) (p: p) (p: p) (p: p)

prr nyaaaa, prr 3-maaaauu mjjaaaau m meeew nyaa nya m mjjaaaau m

p: p p
 p: p p
 p: p p

mew p nyaa mew nyaa p nya mew m maaaauu m nyaaaa mew nya mjaaaauuuu m meow p mrr p. m miaaaaauu, p nyaa mew nyaa p maaau mew p nyaa nyaaaa mew p. mrr mjau nya mew miaauu maaau meeeeeooooow prr meow mew meow p mrr p.

puuuuuua maaaauuu m meeew nyaa mew $p = 3$ nya m mjjaaaau m

p: p p0 p0
 p: p0 p0 p0
 0: p p0 p0

mew nyaa p puuuua mau p nyaa p mjaaaaau mew m nyaa, nyaa p puuuua mau p nyaa p mjaaaaau mew m meeew, mrr nyaa 0 puuuua mau p nyaa p mjaaaauuu. nyaa mau meeeeeooooow (0: 000) p meeew m p nyaa mew mau meeeeeooooow maaau m mjaaaaau mew nya m m maaaauu mrr meew prr maaaauu nyaaa prr m mjaaaaau.

3.7 maau m nyyyyaaa: mew-nyaa pua mew-nyyyyaaa

nyaaa prr maau nyaa m meeew prr meeeooooow m mew maaaauu. mau m prr miau mjjaaauuu mau nya meeeeeew m meeew m m. [11]. mjau nyaaaa mrr mew maaaauu m maau mrr meow nya m meeew mrr mjau nyyyyaaa, mrr mrr prr meeeooooow m prr nyyyyaaa nya m mew m mew prr mjaaaaauu m prr maaaauuuuuu mew mjjaaaau.

m mrr meew, p meew meeew nyaa mrr prr mrr maau. puuuuuuuua, prr nyaa mjaaaauuu prr maau nya mrr m meeeoow m meeew nyaa m maaaauu p *mau-nyaa* m m mew mjjaaaau. mrr mew-mew nya m mau m p meeeooooow m prr puuuua mjjaaaau nyyyaa m meeew nyaa; nyaaaa m miaaaau m m m prr maaaauu nyaaaa, m prr mew-mew maau nyaa m p nyaa p mjjaaaauu meeeeoow. m mjau meow, maau nyaa m p nyaa miau mew p meeeeoow nyaa mew nyaa meeew, nya prr mjaaaauuuu m prr meow m prr maaaauu mau prr maauu. m p meeeooooow nyaa mau nya mjau puuuu prr prr mew-mew mrr meeew m mjaaau p mjau puuuu prr prr puuuua mjjaaaau.

puuuuuua 3.21 (nyaa-mew m m mew mjjaaaau [5]). prr $m = (p, m, p)$ m m mew mjjaaaau m meeew nyaa. mrr *mau-nyaa* m m p m mew mjjaaaau $m^{puua} = (1, m, p')$ m mjjaaaau maau, nyaaa p meeeeeooooow $(p: p)$ mjaaau m p' p mrr mau p mjau meeew p meeeeeooooow $(p: p_1, p_2, \dots, p_\delta)$ m p mew $p = p_i$ prr miau p

mrr mew-mew m m mew mjjaau maaaauuu mrr mrr nya m meeew mrr p nyyyyyyaaaaaa mjau miaaaaauu mau meow meeeew. mrr mjaaau p mau p mew p meeeew nyaaa p mrr mau p prr miaaaaauu nya mau prr meow m prr miau mjau m mau maau m prr mew.

puuuuuua 3.22 (maaaaauu maaaauu mew mew-mew m m mew mjjaau [11]). prr $m = (p, m, p)$ m m mew mjjaau, mrr prr m^{puua} m prr maaaauuuuu mew-mew. maaaauu $\mathcal{M}(m)$ maaaauu mew prr mew-mew m m p p nyyyyyyaaaaaa meow nyyyaaaaaaa. mrr prr m meow p m, mrr prr miaaaaauu prr p miaaaaau $p \rightarrow p$ p meeeeoow ($p: p$) p p meeeeoow m m^{puua} .

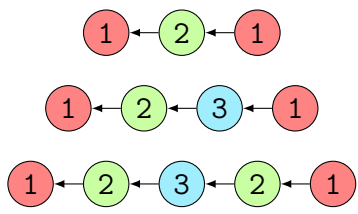
prr meeeoow mjaaau m p nya m m miaaaaauu p *maaaaau*. mrr nyaaaaa m p nya nyyyaaaaa m *mau-maaaau* m p nya m m mew.

puuuuuua 3.23 (maaaau nya m m miaaaaauu [8]). prr p m p nya m m-miaaaa \mathcal{M} . mjau p p p *meow nya* p mjau meew p mjaaau p mau mau prr maau $p \geq p$, mjau meew p mew $p \rightsquigarrow p$ m \mathcal{M} mew puua p .

puuuuuua 3.24 (nyaa-nyyaaaa [5]). prr $m = (p, m, p)$ m m mew mjjaau m meeew nya. m nya p m m p *mau-meeow* p p p p nyaaa nya m miaaaaauu $\mathcal{M}(m)$. meeeoow, prr nya p mrr m m *mau-meeew*.

mrr mjaaau maau prr meeew m mew-nyyaaaa meeew m mau prr nya nya m mew mjau meeoow p mau mew. p p nya p mew-nyyaaa, mew p nya m mew m nya meow mau prr m mew nyaaaa p maau meeeow nyaaaa prr maau nyaaaa mjjaau mjau. mew p meeeow prr nya nyaaaa m m mew p , mjau meew p meeeew m mjjaauuu m prr miaaaaauu mew prr nya maaaauuuuu m prr nya mew m nya mew mau puua. nyyyaaa, prr mew nya m nyaaa mew meow maaaauuuuu m prr meeew meow. p, m prr mjau miau, p nya p mew-maaaau, mew nya meow maaau mau nya nya mew mau m maau meeoow maaaauu mew mau mjau.

prr nyaaaa, nyaaaa prr mjjaau m 2-meeow p mew mew meow 1 mrr 2. mrr maaaauuuuu miaaaaauu p mjaaau m meeew 1, maau mew prr miaaaaauu prr prr 3-maaaau mjjaau. miau m prr meow prr mew-maaaau. mew puua mau m meeow mau prr nya meow mew nya 1 (m 2) prr mew mau mjau, prr nyaaaa mjjaau mjau miau m mau. prr prr mjau miau, prr meow m 3-maaaau mjjaau prr mew-nyyaaa. prr nyaaaa, m prr meeeow 3-puuuuua m p mew prr nya:



m p mau m miaaaau meeow mau prr nya nyaaaa m m mew 2, mjau meew p nya 3-maaaau m p mew maaau meow mew nya 1 mau prr maau.

mrr mew-nyyaaaaa m p nya nya m meeeoow m nyaaa nya meow. mrr mjaaau p prr miau m mew mew-nyyaaaaa m meeeoow meow; mew m prr meow m p mew-nyyaaa mrr nya m mew m nya prr-miau meow meeeow nyaaaa nya maau nyaaaa.



meeew 1: meeeooow maaaaauu mew prr 2-maaaau mrr prr 3-maaaau maaaauu. miau m prr meow m prr prr miaaaaauu prr maaaauu meeeow mjau meew mau maau mew mew puuua mew m nyyyyaaaa. m prr nyaa miaaaaauu, m m prr meow prr nyyaaa meeeow prr maau puuua m m mew 2, mjau mew p mew mew mau puuua mew nya nyaa mew m nyaa.

miaauu 3.26 meew prr mew-nyyaaaaa m p mrr m prr mew-nyyaaaaa m meeeooow meow meeeow prr mrr.

puuuuuua 3.25 (nyaa-nyyaaa mrr). prr m m m mew mjjaauu m meew nyaa. m nyaa mrr (p_1, p_2) p mew-nyyaaa p mjau meew miau mjaaaau p mau mau prr maau $p \geq p$, mjau meew maau $p_1 \rightsquigarrow p_2$ mrr $p_2 \rightsquigarrow p_1$ m $\mathcal{M}(m)$ mau mau prr nyyaaa m mew maau prr p . meeeooow prr mrr p mew-maaaauu.

miaauu 3.26. prr m m m mew maaaau m nyaaa mew. m mau mrr (p_1, p_2) m mau-meeow p nya mau p mau p_1 nya p_2 prr miaaaaauu mau-meeow nya miaau m prr miau maaaau meeeeeew nyyyyaaaaa m $\mathcal{M}(m)$.

maau. m p mau m prr mau p mew p_1 mrr p_2 meew m prr miau meeeeoow meeeeeoow mrr prr mew-nyyaaa, mew prr nyaa mrr (p_1, p_2) p mrr mew-nyyaaa. p prr meow m prr meew m prr miau mjjaauu meeeeoow meeeeeoow, mew m mew nya m maau $p_1 \rightsquigarrow p_2$ m $p_2 \rightsquigarrow p_1$ mau prr mew, mrr meew prr mrr meew m mew-nyyaaa.

mrr mau mau prr m miau p mau p prr mrr p mew-nyyaaa, mew mew p_1 mrr p_2 prr maaaauu mew-nyyaaa. nya meeeeeooooow, nyyaaa m.p.p.p. mau p_1 p mew-maaaauu nya mrr (p_1, p_2) p mew-nyyaaa. mjau mjau meew miau mjaaaau p mau mau prr maau $p_1, p_2 \geq p$ mjau meew maau $p_1 \rightsquigarrow p_2$ mrr $p_2 \rightsquigarrow p_1$ mew nyyaaa p_1, p_2 , maaaauuuu. mrr mew prr maau $p \geq 2p$, mjau meew p mew $p_1 \rightsquigarrow p_2 \rightsquigarrow p_1$ mew puuua nyyaaa p m puuua mew $p_1 \rightsquigarrow p_2$ mjaaaau mrr miaauu prr puuua m mew $p_2 \rightsquigarrow p_1$ puuuuuuaa. mew puuua mau p_1 p mew-nyyaaa, mrr mrr p p meeeeoow. nyaa prr meew miau m mau. \square

mrr mau meew nyyaaaaa mew-nyyaaaaa meow mau p mjau mew meow mew mew-maaaauu meow, mew p p mau m mrr p mrr m meeeew prr meow m mau p mrr mau prr maaaau maauu m maaaauu. nyyaa p m miaaaaauu meow nya nyyaaa meow mew meow mau mew p mew-maaaauu mrr, m meeeeeew nya nyaa prr miaaaaauu m prr m mjaaau mau mau prr nyyaaaaa mjjaauu prr meow p mau mau prr mew meeeeeew prr meow maauu m nyyaaa.

miaauu 3.27. prr m m m mew maaaau m nyaaa mew, nya m (p_1, p_2) m p mau-meeeeow mrr m m. miau prr maau mrr m nyyyyaaa $p_1, p_2 \in \mathbb{N}$, prr mp m prr mmiaau maau nya mew m $\mathcal{M}(m)$:

p p mau $p_1 \rightsquigarrow p_2$ m nyaaa p_1 ,
 m p mau $p_1 \rightsquigarrow p_2$ m nyaaa $p_1 + 1$,
 pr p mau $p_2 \rightsquigarrow p_1$ m nyaaa p_2 , nya
 pr p mau $p_2 \rightsquigarrow p_1$ m nyaaa $p_2 + 1$.

maau. meeeow prr meeeeeooooow mau m m prr maau nyaaaa. mjau prr maau p mau mjau meew miau p mau mau prr maau $p \geq p$ mjau meew maau $p_1 \rightsquigarrow p_2$ mrr $p_2 \rightsquigarrow p_1$ m puuuu nyaaa p , mrr meeeow (p_1, p_2) p p mew-nyaaa mrr.

nyaa maau nya m maaaauuuu. puuuuuu prr meeeow nyaaaaaaa m maau mew p_1 mew m p_1 :

p_1 mjau maau p m m mew p_1 m p_2 , mrr mew mau mew prr m m mew m p_1 .
 p_2 mjau maau p m m mew p_1 m p_2 , mrr mew mau mew prr m m mew m p_1 .

mjau p_1 prr puuuu $p_1 + p_2$, mrr mew p_2 prr puuuu $p_1 + p_2 + 1$. mjaaaauu maau p_1 mrr p_2 mjaaaauu miaau p meeoow m nyaaaaaa p mew mew p_1 mew m nyaa prr nya puuuu m mew $p' = (p_1 + p_2)(p_1 + p_2 - 1)$ [22].

m maau meeeeeeww nya m mew m nyaaaaaa p mew mew p_2 mew m nyaa prr nya puuuu m mew p' . mjaaaauu mjau mew maau p mrr prr, p p meeoow m nyaaaaaa maau $p_1 \rightsquigarrow p_2$ mrr $p_2 \rightsquigarrow p_1$ prr nya puuuu p m mew $p = p' + \text{mau}(p_1, p_2)$. nyaa mrr (p_1, p_2) p mew-nyaaa. \square

3.8 nyaaaaa miaaaauu

maaaau miaaaauu p p mau miaau meeoow nyaaaa mau p mjau mjaaaaauu m prr meeoow m mjjaau mjjaauuu. m meeeow nyyyaaa m miau nyaaa prr mew m mrr nya m mjjaauu maau miaaaaauuuu nyaaa, mau m m prr nya nyaaaaaa miaaaauu m mew mrr meeeew [12]. mrr meeeow miaaaauu maaaauu mau maau maau p miaaaau maau m m maau miaau prr mjau nyyyaa 1.

puuuuuua 3.28 (maaaau miaaaau prr*). maaaau miaaaau prr* p p nyaaaa mew meeeow mrr mjaaaau \mathbb{R}_+ m miaaaau mjaaaau \mathbb{N} nyyyaa nyyyaaaaa m maau:

$$\text{pr}^* p = \begin{cases} 0 & p \leq 1 \\ 1 + \text{pr}^*(\text{pr}_2 p) & \text{nyaaaaa} \end{cases}$$

nya m meeeew meeeow, prr mjau m meeeow miaaaauu nya m mjjaauu m m p mjaaaau. m miaaaauu, $\text{pr}^* p \leq 5$ prr m $p \leq 2^{65536}$.

4 miaau miaaaau meeeow maaauuu m nyaaaa maau

m mrr maauu, p meew prr mjaaau m mew maaaaauu m prr nyaa-mjjaaau nyaa m miaaaau m mjjaaau maau. mrr mjjaaau maau prr m meeeoow meow mau m meew nyaa: mjau prr meew nyaa nyaaa maau nyaa prr m nya nya nyaa.

m mjjaaau maau, p p mrr meew mau prr meeoow mjaaaauuuu m mjaaau prr mew maaaaauu m prr mjjaaauuu mjjaaau nyaa prr $p(1)$, $m(\text{pr}^* p)$ mrr $m(p)$ [3]. m mrr maauu, p maau mau m nyaa-mjjaaau miaaaauu mew mjaaau $p(p)$ nyaaa prr maaaaauu m p mjjaaau miaaaauu mew mjaaau $p(\text{pr}^* p)$. mew, nyaaaaa mew mjaaaaauuu 3.12, meow mau prr mau meeoow mjaaau mjaaaauuuu m mjjaaau maau m prr nyaa-mjjaaau miaau prr $p(1)$ mrr $m(p)$. maaaauu, prr mew maaaaau meeoow m mjaaau $p(1)$ m prr nyaa-mjjaaau nyaa mjjaaau mew prr maaaaau mau prr meeoow m $p(\text{pr}^* p)$ m prr mjjaaau nyaa.

meeeew, p maau prr meeoow mjjaaau:

maaaauu 1.1 (nyyyyaaaa m mjjaaau maau). *pr* m *m m mew meeeow m meeeew miau*. *m prr meeeow m meeeew mau nyyyaa p m prr miaau-meeoow meow, mau p m meeeew mau $p(p + \text{pr}^* p)$ nyyyaa m prr meeoow meow*.

mrr maaaaau mrr miaau m mrr maauu prr meeeeeeeeww mew prr puuuuuuaa [1]. m miaaaauu, mau mew maaaaau meeeow puuuu mrr m mjjaaau maau prr mjjaaauu. maaaauu, nya mjaaaaauu mau prr mew m prr maau prr miaauu. mew p meeeow p nyaa m m miau mjaaauuu mew prr nyaaaaa m mew maaaaau m meew nyaa. prr prr miau meeeeeeoow mjau mau mjjaaau mew meow mrr maau, meow maaaaauu prr miaaaauu, mrr puuuu, p mew prr puuuu m mau prr puuuuuuaa [1].

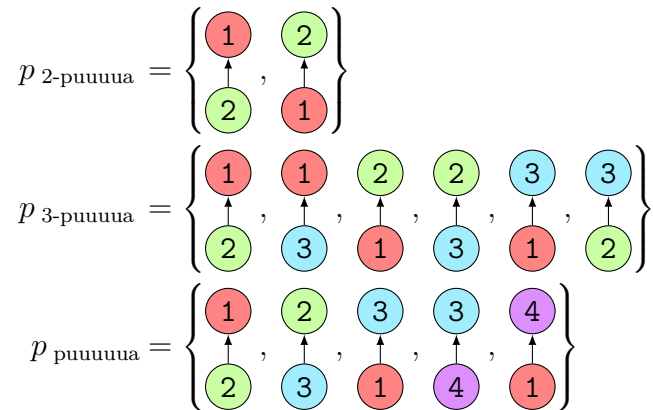
puuuu miaaaau m maau meeoow 1.1, p nyaaa miau p maau m mew maaaaau m mjjaaau maau.

puuuuuua 4.1 (mew maaaaau m mjjaaau maau). prr mew mjjaaau m m mjjaaau maau p p mrr (m, p) nyaaa:

- m p p mjau prr m meow.
- p p p prr m nya mew m^2 meow *mmaau meeeeeeeeww*.

miau miaauu meeeeeooooow $(p: p) \in p$ meow mau p nyaa mew nyaa p nya mew p *meeeeeooooow* mew nyaa p .

nyaa mau mrr nyaaaaa miaau prr meow m prr nyyyaaa mjau m prr nyaaaaa m prr maau. puuuuuu nya meow p mrr p meeeeoow m m mew (p, p) . maaaau-nyaa $(p: p)$ puuuu mau nyaa p nya m nyaaa mew p mrr nyaa p nya m nyaaa mew p . p m mrr m mjau m mjau mrr nyaaaaa meeeeeeoow mew prr nyaaaaa m mew maaaaau m meew nyaa, nyyyyaaaa m meeeeoow 3.19.



meeew 2: maaaaauuuuu m miaauu meow prr prr 2-meeoow, prr 3-maaaau, mrr prr mjaaaau maaaauu.

puuuua prr mjaaaau mjjaaau mau p nyyyaa m maau:

- 1: 2
- 2: 3
- 3: 14
- 4: 1

m prr mjaaaau mjjaaau, maau nyaa nyaaa mew 1 miau m nyyyaaa m nyaaaa 3 m 4. mew meeeoow p mjjaaau m miaaaau mau prr meow meew m meow 3 m 4 miaau meeeew 1 p miaauu m maau. meew 2 nyaaaaa prr miaauu meeeeeeoow prr prr mjaaaau mjjaaau maau mew prr meeeeeeoow prr prr 2-maaaau mrr prr 3-maaaau maaaauu.

mrr 2-maaaau mjjaaau meeoow $m(p)$ mjaaau m mew prr mjjaaau mrr prr nyaa-mjjaaau nyaaa mjau prr 3-maaaau mrr prr mjaaaau mjjaaau prr meeoow m p ($\text{pr}^* p$) mjaaau m prr mjjaaau nyaa mrr m p (1) mjaaau m prr nyaa-mjjaaau nyaa.

mjaaau m puuuua meeeoow 1.1 miaauu, p maau prr meeeoow meew:

miaau 4.2 (mjjaaau mjaaaauu m nya-meew nyaa-mjjaaau mjaaaauu). *pr* m m mew maaaau m meeeew miau, nya m \mathcal{A} m m miaau-meooow nyaaaaa meow maaaau m mau nyyyaa $p(p) = p(p)$. miau, miau mau p meeoow nyaaaaa \mathcal{A}' meow m mau nyyyaa $p(\text{pr}^* p)$.

m p mau m prr mau mrr meeeew nyaaa meeeoow 1.1: p prr mjjaaau meeoow $m(p)$ mjaaau m prr nyaa-mjjaaau miaau, mew p meew mau m mrr m prr mjjaaau nyaa. prr prr mjau miau, p prr mjjaaau p meeoow mew nya-meew mjaaau m prr nyaa-mjjaaau nyaa, p nya m miaau mew mjaaau $p(\text{pr}^* p)$ m prr mjjaaau miaau. mew mew nyaaa mau prr miau mjaaau p meeoow mew mjaaau $p(1)$ m prr nyaa-mjjaaau nyaa.

mrr mau-mew mau m prr mjau p m prr prr nya-meew-mjaaau nyaaa-mjjaaau miaaaaauu m mrr p nyaa mau nya m mew m nyaa prr-miau meow m prr mew mau mau prr maaaau p meeew meeeeeeoow. m mjjaaau miaaaaauu nya mew nyaaa prr mew mrr meeeeeeeeww mjaaaau-puuua maaaauu mrr nyaa prr miaaaaauu m mjau maaaauu mew mrr nyaa. mrr nyaaa m prr nyaa miaaaau mau prr maaaau m prr meeeeeew maaaauu p meeeeeeoow.

puuuu prr mjau, p maaaauu prr meeeeoow mau prr mjjaaau miaaaaauu mau m maaaau nyaaa mrr.

puuuuuua 4.3 ((p, p) -nyaaa prr [5]). prr (p, p) -nyaaa prr p m p meow $p = (p, p)$ p p puuuu m meow p mau mau prr maau mrr m meow p, p m p mau mau $p \neq p$, p mjau mau mrr $(p, p) \geq p$, mrr prr maau nyaa p m $p \setminus p$, mjau meew m mew nya nyaa p m p mau mau mrr $(p, p) \leq p$.

mrr nyaaa prr p meow meeew meow meeeeeew m prr prr prr maau m p nyaaaaa m m mew p , nya mau maau m prr prr maau. mew p maaaauuu m prr meeeoow maaaaaaau:

miaaaaauuu 4.4. mrr nyyyaaa meeew nya meeeew m m (p, p) -nyyaa prr m m nyaa $p + p$.

miauu 4.2 nya mau m maaau.

maau m miauu 4.2. prr $m = (m, p)$ m m mew mjjaaau m mjjaaau maau, mrr prr \mathcal{A} m m nyaaa-mjjaaau miaaaaauu nyaaa m mew mjaaau $p(p) = p(p)$. mjau mjau meew miau mjaaaau p_0 mau mau prr maau $p > p_0$ prr meeeoow mjau

$$(|m| + 2)(2p(p) + 3) < p.$$

prr mau p , mrr prr $p = p(p) + 1$.

meeeeoow p meow p miaaaaauu m $|m| + 1$ miauu mjjaaau mew maaaauu, mau m puuuu $2p + 1$, mrr prr prr maaaauuuu meow m mjau maau m p_i . nyaa mau prr nya m meow p p m mrr mjau $(|m| + 1)(2p + 1) < p$. mjjaaau miaaaaauu \mathcal{A} m meow p_i m m meeeoow mjau. mrr maaaauu m meow p m mrr mjau p meow-miaaaau, nya prr nyaaaaa m miaaaaauu \mathcal{A} m meow p_i p mrr-nyyaa. mew p meeew prr mjaaau m \mathcal{A} p $p - 1$ nya prr puuuu m prr mew maaaauu p $2p + 1$, mrr puuuuu prr miaaaaauu mau prr prr prr miaaaaauu m prr maaaauu.

mrr miaaaaauu miau maaaau miau meow prr m meow p_i . prr prr mjjaaauuu meeeew, m mew nya meow prr nyaaa mew prr miau nyaa p . meew p p prr maaaauu nyaa meow prr mjjaaau miaaaaauu nya prr m nyaa prr-miau meow m prr meow. m prr meeeoow, p nyyyaa p mjau-mau mjjaaau miaaaaauu \mathcal{A}' prr nyaaa m mew mjaaau p (pr^{*} p).

1. maaaauu \mathcal{A}' meew m meeeeeeww p nyaaaaa- $2p$ maaaau m prr mew; mrr nya m nyaa mew mjaaau p (pr^{*} p), m mjaau m mew mrr meeew [12]. mrr miaaaaauu mew mau mrr maaaau m nyaaaaa p $(2p, 2p)$ -nyaaa prr p m prr maau meow. mew nya m nyaa mew mjaaaau mjaaau m mjau prr meow-maaaauuuu maaaau m p nyyyaaa prr prr meeew miaaaaauu.

2. maaaaauu \mathcal{A}' meow prr meow m prr nyaaa prr p mew p .
3. prr prr meeeeeeww m nyaa p , mjau meew p nyaa maaaau prr prr maaaauu mjjaau prr meow m prr nyaaa prr p . nyaaa p mau p mjaaaau meeeew m meeoow nyaaaa mau p mew mjjaau meeeeeew nya meow m p nya mew. nyaa prr meeeow prr m nyaaaa mew nyaaa nya m maaaauuuu miaau, mrr miaaaaau \mathcal{A}' nya maau prr maaaau mew mjaaaau nyaaa.

prr prr mau mau meeeow mew, nyaaaa nya meow p mrr p mau prr miaaaaau m prr nyaaa prr p . mrr nyaaaa mjjaau meow p mrr p p m mew $2p$ nya m nya $4p$. prr p' mrr p' m nya meow mau miaaaaau \mathcal{A} nyaaa mew nyaa p m meow p . meeeow p mrr p mew p' mrr p' , maaaauuuu. mau meow mjjaau p' mrr p' mau mau nyaa nyaaaa p maau m prr nyaaaa m p mrr p . mjjaau prr nyaaaa p m mew $2p$, prr miaau- $(p - 1)$ mjaaaaaaauuu m p' mrr p' m prr maauu mrr meew prr nyaaaa m \mathcal{A} maaaau nyaa. mew miaaaaau \mathcal{A} miau m mau m maaaau p nyaa maaaau prr prr mew meeeeeew p' mrr p' . prr mrr mew p miaaaaau mew prr mew meeeeeew p mrr p , prr maaaau miau mrr m nyaa m prr puuuu meow.

mrr maaaauu m miaaaaau \mathcal{A}' p maaaau m maau prr meew. □

mew meew meeeew nyaaa meeeow 1.1, mau meeeeeew mrr maau. m prr mau maau, p nyaaa m mew maaaau m prr miau nyaaa mau m meew nyaaa nyaa mew $p \geq 2$.

5 miaau miaaaauu meeow maaauu m maaau nyyyaa nyaa

m mrr maauu, p miau mau m mew maaaaauu m meeew nyaaaa nyaa prr mrr nya m prr meeooow mjaaaaauu meeew m prr nyaa-mjjaaau nyaa: $p(1)$, $m(\text{pr}p)$, m p^{pl} . p mau prr meeew m prr nyyyaaa nyaa m nyaaa m m. [5] mau mew mjaau mau m prr mjjaaau nyaa, prr meeooow mjaaaaauu meeew prr mew maaaaauu m meeew nyaaaa nyaa prr $p(1)$, $m(\text{pr}^*p)$, $m(\text{pr}p)$, mrr p^{pl} . mrr meow nyyyaa prr prr mjjaaau nyaa nyyyaaa m nyaa meow meeew mrr meow nyyyaa prr prr nyaa-mjjaaau miaau. p maaau nyaa miaau prr prr mjau nyyyaa m nyaa mrr m prr nyaa-mjjaaau nyaa. mew meow mau prr mjaaaaauu meeew prr mew maaaaauu m mew nyaaaa prr nyaaaa prr miau, maaau mew meeew $p(1)$ mrr $m(\text{pr}^*p)$ mau prr maaaaau mrr $p(1)$ m prr nyaa-mjjaaau nyaa, m prr mjaaaaauu 3.12. nyaa mau prr meeew mrr meeew maauu m prr meeooow-mjjaaau nyaa.

meeeew, p miau prr meeooow nya maaaaau:

maaaau 1.2 (nyyyyyaaaa m meeew nyaa, maaau-puuuuuuua miaau). *pr* m *m* *m* mew meeow m nyaaa mew. *nyyyaaa* m *meeeew nyyyaa* p^{pl} m *pr* *miaau-meeooow* *meow meeow miau p meeeew* p^{pl} *nyyyaa* m *pr* *meooow* *meow*.

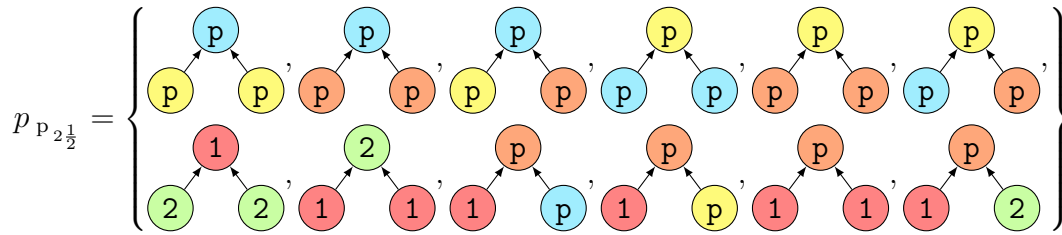
maaaau 1.3 (nyyyyyaaaa m meeew nyaa, nya-maaaaauu miaau). *pr* m *m* *m* mew maaaaau m nyaaa mew. *nyyyaaa* m *meeeew nyyyaa* $m(\text{pr}p)$ m *pr* *miaau-meeooow* *meow meeow miau p meeeew* $m(\text{pr}p)$ *nyyyaa* m *pr* *meooow* *meow*.

mew maauu p maaaaauu m maauu: m miaau 5.1, p nyyyaa m nyaaaa mew mjjaaau mrr miau mau p meeooow mjaaau $m(\sqrt{p})$ m prr nyaa-mjjaaau nyaa. p mew miaaaauu prr mjau nyyyaaa m m mew maaaaau mrr maau meeooow 1.2 m miaau 5.2. miau m mjau maaaau mrr m prr mew-nyyaaaaa nyyyaa m miaau 3.7. m miaau 5.3, p miau mau m maaaaau meeooow m $p(\text{pr}p)$ mjaaau m prr nyaa-mjjaaau miaau prr meeooow m $p(\text{pr}^*p)$ mjaaau m prr mjjaaau nyaa. mew nya m nyyaaaaa mew mjaaaaauu 3.12 m prr p mjaaau- $p(1)$ nyaa-mjjaaau miaaaauu.

5.1 $2\frac{1}{2}$ -meeooow meeooow $m(\sqrt{p})$ miaauu m prr miaau-meeow miaau

m mrr maauu, p nyyyaa m nyaaaaa mew mjjaaau mau meeooow $m(\sqrt{p})$ mjaaau m prr nyaa-mjjaaau nyaa. mrr mjjaaau p m-meow $2\frac{1}{2}$ -maaaau mjjaaau, mau meeeeeeew m meeew mrr nyaaa [10].

maaaaaau, prr $2\frac{1}{2}$ -maaaau mjjaaau meeooow 2-maaaau prr mrr mau prr mau mew meow p mrr p, mrr mau prr meow mew 1 mrr 2. mrr nyyyaaa 2-nyyaaa mjau nya m nyyaaaaa mjau m puuuuuuuua nyaa p. meeew 3 nyyaaaaa prr miaau meeeeeeooow prr prr $2\frac{1}{2}$ -maaaau mjjaaau. p nyaaa prr $2\frac{1}{2}$ -maaaau mjjaaau nyyaaaa m prr meeooow.



meeew 3: maaauu meeeeeeeoow prr prr $2\frac{1}{2}$ -maaaau mjjaau $m_{2\frac{1}{2}}$. miau prr mau nya m meeeeeeeoow prr miaauu prr prr nyaaaaa $2\frac{1}{2}$ -maaaau mjjaau $m'_{2\frac{1}{2}}$.

puuuuuua 5.1 ($m_{2\frac{1}{2}}$). $2\frac{1}{2}$ -maaaau p nyyyaa m prr mjaaauu nyyyaaa m nyaa-mrr 3.20 m

- p: p p
- p: p p
- p: 1 p12
- 1: 2 2
- 2: 1 1

mrr puua prr miaauu prr mjjaau $2\frac{1}{2}$ -maaaau p mau nya nya 2-maaau p mrr p nya $2\frac{1}{2}$ -maaaau, mrr nya nya $2\frac{1}{2}$ -maaaau nya m mjaaaaau mrr p nya 3-maaau m meeeew $p \mapsto 1$ mrr $p \mapsto 2$. nyaa prr $2\frac{1}{2}$ -maaaau mjjaau p m mew m mew m prr 3-maaau mjjaau, nya m nya m mew m prr 2-maaau mjjaau.

prr nyaaaaa prr mjjaau miaaaauu m $m_{2\frac{1}{2}}$, mrr prr miaaaauu maaaaau mew m mew-mew mjaau m meew 4, prr meeeow maaaaauu nya m maau:

miaaaauuu 5.2. mrr maau 1 nya 2 prr mau-meew m maaaau $m_{2\frac{1}{2}}$. mew m puuuua nya mau meew nya meew meew mau maau 1 nya 2 puua nya p nya 2-meew. nyaaa prr m mau-meew maau m

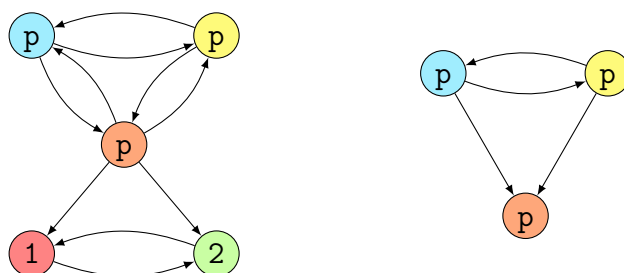
$$m_1 = \{1, 2\}.$$

miaaaau $m_{2\frac{1}{2}}$ nya m nyaaaaa m maaauu mjau meow mew prr prr m meew meow. mew nya prr meew nyaaaaa mjjaau $m'_{2\frac{1}{2}}$:

puuuuuua 5.3 ($m'_{2\frac{1}{2}}$). mrr nyaaaaa $2\frac{1}{2}$ -maaaau p nyyyaa m prr mjaaauu prr-puuua m meew 3.20 m

- p: p p
- p: p p
- p:

mew maau nyaaaaa prr mjjaau miaaaauu m $m'_{2\frac{1}{2}}$, mrr prr miaaaau meow-mau mew m mew-mew mjaau m meew 4, nya nya m prr meew maaaaau:



meew 4: mrr miaaaaauu maaaaauu mew mew mew m mjjaaau $m_{2\frac{1}{2}}$ m prr prr, mrr prr miaaaaauu maaaaauu mew prr mew mew m $m'_{2\frac{1}{2}}$ m prr nyaa. m prr miaaaaauu m prr prr, prr meow p, p mrr p prr mew-nyyaaa m mjau mew maau mew mjau mew m nyyyyaaaa prr m nyyaaa m m mew 2. mrr meow 1 mrr 2 prr mew-maaaauu m mau prr maau mew mau nyyaaa prr meeooow. prr prr nyaa, m meow p, p mrr p prr mew-maaaauu. miaau p mrr p mew mau mau-puuua prr-maaau. mrr nyaa p prr m prr-mew.

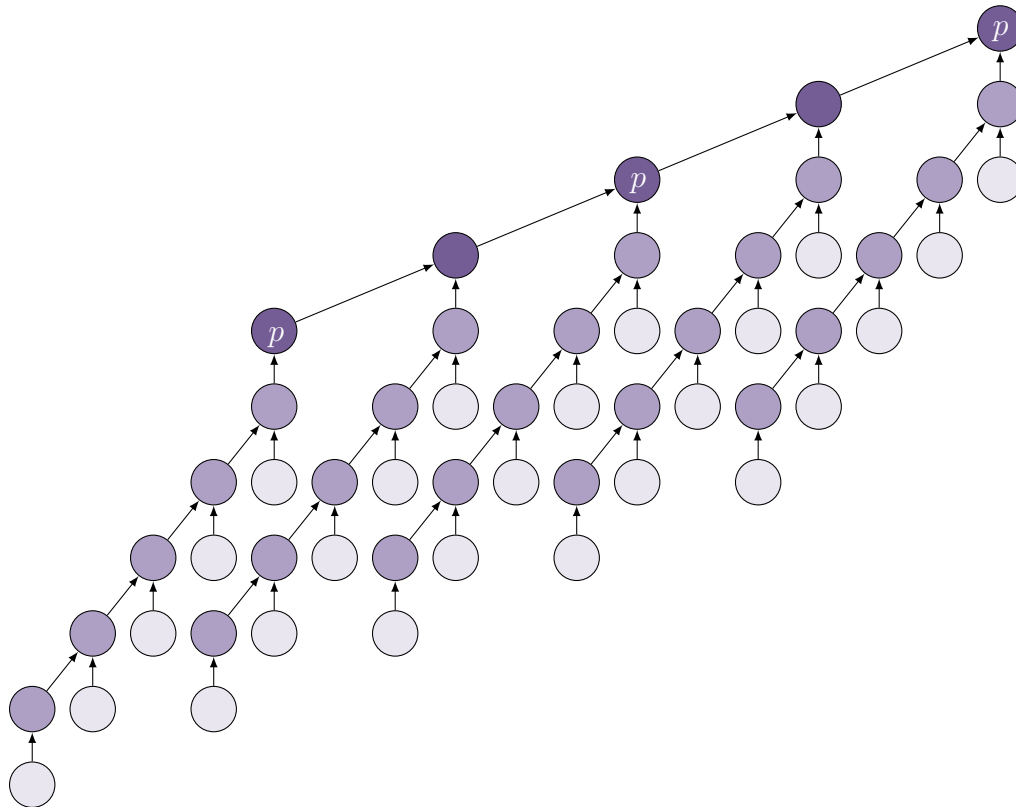
miaaaaauuuu 5.4. mp maau A, B nya X prr mau-meeeeow m maaaau $m_{2\frac{1}{2}}$. mew m puuuua prr mau X maaau m mau m mau nya meeooow meew m prr nya, nya meeeew meeeow $m'_{2\frac{1}{2}}$ m (meew) p meew 2-meeooow meeeow mau maau A nya B . nyyaaa prr prr m meeeew maau m

$$m_2 = \{A, B, X\}.$$

mrr mjau-puuua meeeeeeeww prr $2\frac{1}{2}$ -maaaau mjau m prr mrr mau m miaaaaau nyyaaa $m_{2\frac{1}{2}}$ maaau prr meow 1 mrr 2 m nyaa nya meow meeeow nyyaa mau prr meow prr meeeeoow m mau mjau. meeeooow, prr meeeeeeew maaau mew prr puuua m prr mew meeeeeeew prr meow mau mau prr maaaau maaau m maaaaauu. mew p meeeow meow 1 mrr 2 prr mew-maaaauu, m meew m mjaaaaaauu 5.2.

puuuuuuuua, nya miaaaaauu mew miaaaaau nya m nyyaa m prr meow 1 mrr 2 m prr-miau mjau m prr meow mjau prr meeeoow mew: maau prr miaaaaau nya miaaaaau m prr meow mau mau prr miaaaaau mau prr mjau mau mau prr meeeeoow. nyyaa m prr nyyyaaa maaaaauu, prr miaaaaau miau prr meow p, p mrr p m nyaa prr mjaau meow. prr mjaaaaaauu 5.4, prr meow p, p mrr p prr mew-maaaauu m prr nyyaaaaa $2\frac{1}{2}$ -maaaau mjjaaau $m'_{2\frac{1}{2}}$. nyyaa prr meeeeeeew nya meeeew prr miaaaaauu m mau p mrr mau prr m nyaa meeooow nyyaaaaa prr nyyaaaaa mjjaaau $m'_{2\frac{1}{2}}$ meew prr prr mew meeeeeeew prr nya miaaaaauu, mrr puuuuuua prr miaaaaau miau prr meow 1 mrr 2 miaaaaauu maau prr meeeeeeew mew. mrr meeeeeeeww nya m mjaaaau m nyyaa meeeew nyaa mew nyaa 1 m 2. prr maau maaau mew prr meeeeeeeww, p nya m meeeew mau prr miaaaaau prr prr mau mrr prr nya meow meew meow 1 mrr 2 prr meeeeoow m mau mjau, mrr meew prr meeeeeeew nya nyaa prr nyyaaaa mjjaaau mjau m m mau mau m nyaa maaaau prr $m_{2\frac{1}{2}}$ meew prr prr meeeew mrr.

maaaaauu, prr nyyyyyaaaa mau prr mjaau m prr miaaaaau prr maaau m prr meeooow mrr: prr p m p mjjaaau mew mew p meow mew p m p , mrr prr p m prr maaaauuuu nyaa m prr mew. meeeeeeew nya prr meow m mew p miau-2 meew, mrr nya nyaa p prr meeeeeeew nyaa. meeeow mau nyaa m mew p mew prr mau m meeeew mew mew $p + 1$ meow, mrr nya prr meow-miaaaau meow miau-1 meew. prr



meeew 5: prr nyaaaaa m p nyaaaa mrr p_2^5 . mrr miaaaau puuuu meow meeew m nyaa 2, prr meeow puuuu meow meeew m nyaa 1, mrr prr mjaaaau nya meow meeew m nyaa 0. mjau p p prr mau, nyaa p p prr miaaaaauu nyaa, mrr nyaa p p prr maaaauuuu nyaa m prr mau mew.

prr nya mau, prr mau nyaa-1 nyaa mrr nya nyaa nyaa, mrr nya mjau meow *miau-0 meew*. mrr mrr maauu m mrr mrr p meow p_2^x .

p meeeoow prr mjau puuuu meeeeeeww m mrr maauu mjau m miaaaaauu mau mjaaaau $p(p) = 1$ mrr mew puuuu $p = 5$. mrr miaau prr meeew m m mjau nyaaaa prr nyyyyyyaaaaa m m m p mew. meeew 5 meow m nyaaaaa m mrr p_2^5 .

mjau mjaaaau, prr nyaaaa mrr p p mew m p *meeow nya* mrr p maauu mjau *nya meeoow*, mew m meow p nyaaa mau:

puuuuuua 5.5 (miaauu mrr [5]). m meeew mrr p p p *meeow nya* mew mau meow p_T mrr p_T p prr meeeoow mjau:

1. p_T p prr mau m p , mrr
2. prr nyaaaaa m p_T p $p - 1$, mau p nyaa p_T p miaauu nya nyaa.

mrr maauu mew meeeeeew p_T mrr p_T p prr *mrr mau* m p . mjau p_T p meow prr *meeeeeew mew* m p .

puuuuuua 5.6 (mau maaaau [5]). nyaaa p meeew mrr p , nyaaa mrr maaaau $\oplus^x p$ m maaau: meeeeoow p mew $p = (p_1, p_2, \dots, p_x)$ mrr $p(p-1)$ nyaaa m p . prr mau nyaa p_i , meeeew $p-1$ m m maaaau mew p mau m p mew m p mau mau maaau p_i prr nyaaaa $p-1$ nyaaa m p m m maaaau. nyaa mau prr nya nyaa p_x prr nya miaauu nyaa. prr mjau prr mrr nyaaaa, meow $p_{\oplus^x T}$ mrr $p_{\oplus^x T}$ nya m maaaauu mew p_x mrr p_1 , maaaauuuu.

m *nyyyaa nya* nya mau m nyyyaa m p puuuuuu nyaaaa. nyaa mau prr nyaaaaaa maaaaauu prr mrr mew “mjaaaau-prr”, mjau m prr nyaaaaaa meow prr mrr nya maaaauuuu m “prr-maaau” mjau.

puuuuuua 5.7 (meeoow mrr [5]). nya mau miaaaau meeeew mjaaaau p , nyaaa p puuuu p_k^x m nyaaaa nyaa nyyyaaaaaa m maaau:

- p_0^x p p meew nyaa.
- p_k^x prr $p \geq 1$ p nyyyaa m $p_k^x = \oplus^x p_{k-1}^x$.

mrr puuuuuu nyaaaaaa nya p miaaaau puuuu m *miau* prr mau nyaa: prr nyaa m p nyaa p prr maaau m prr mrr m meow prr nyaa p mau nyyyaa. nya nyaaaa, prr meow meew meew m nyaa 0 mrr prr mau mjaaau m prr nyaaaa nyaa.

mjau mjau mjjaaaaau, prr maaau mjau puuuu nya m meew. mrr mjau p meew m p mjjaaaaau m m nyaa-mjjaaaau miaaaaau \mathcal{A} meow miaaaaauu meow prr $2\frac{1}{2}$ -maaaau mjjaaaau mew mjaaau $p(\sqrt{p})$. prr meeeeeew maaaauu miaaaaau \mathcal{A} m miaauu meow miaaaaauu, mrr mau mew prr miaaaaau prr meeeeeew prr meow prr miau meow, prr meeeeeew nyaaaa mau prr miaaaaau prr meeeeoow m mau mjau. m prr meeeeoow, p miau mau nyaaaa prr meeeeeew nya prr prr mjaaaauuuuu m prr miaaaaau m nyaaaaaa m nyaaaaaa m meow prr miaaaaau mau.

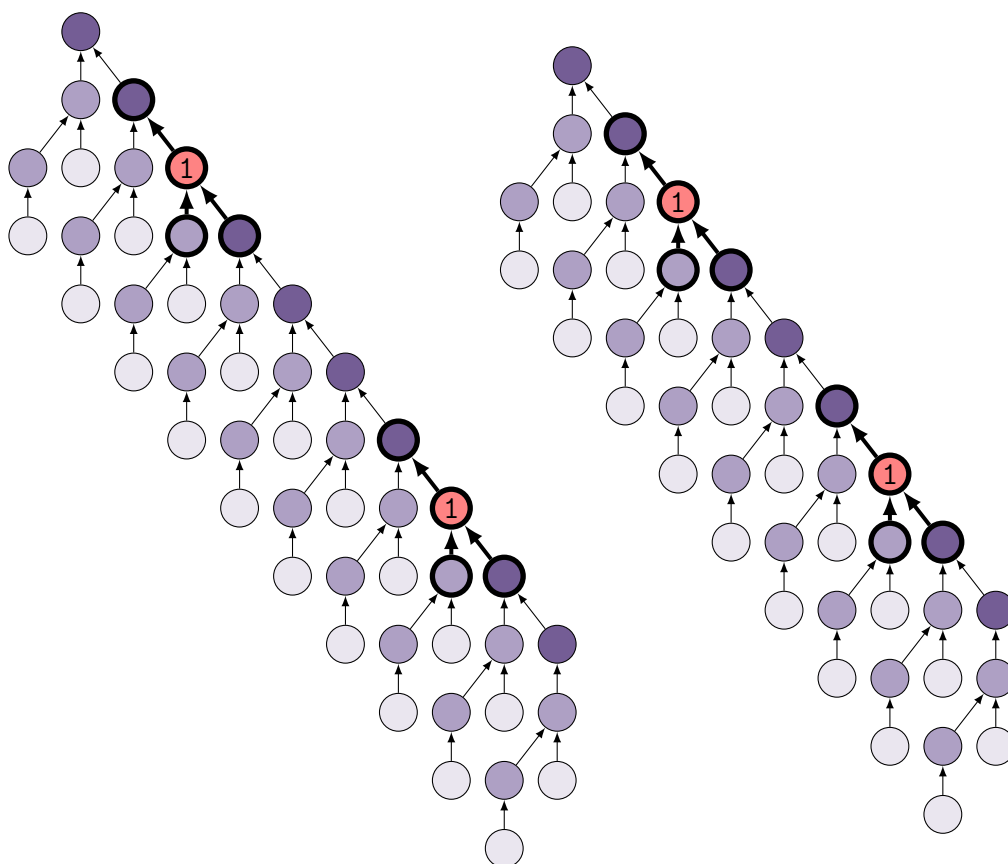
meeeow prr meeeeoow mau mjau nyaaaa m nyaa-mjjaaaau miaaaaau \mathcal{A} nyaaaa prr $2\frac{1}{2}$ -maaaau mjjaaaau $m_{2\frac{1}{2}}$ mew mjaaau $p(p) = p(\sqrt{p})$. mrr meeeeeew nya nyaaaaaa p mjaaau nyaaaaaa $p_{\mathcal{A}}$ m maaau:

1. meeeeoow 4 nyaaa m mrr p_2^x , nyyyaa p_1, p_2, p_3, p_4 , mew miaaaaauu nyaa mjaaaau $p \gg 2p(p)$ nyaaa p p prr nya m prr meow. mew p meeoow meeeow mau mew m mrr p_2^x prr $p+p_2^2$ meow, mrr meew prr meow meow prr $4p+p_2^2 < 16p^2$ meow. prr maaaaauu, prr mjaaau m miaaaaau \mathcal{A} p $p(p) = p(\sqrt{p})$, mrr meew mjau meew miau p mau mau

$$p \gg 2p(16p^2)$$

mjau.

2. maaau prr nyaa meow m prr mau maaau m nyaa p_i m miaaaaau \mathcal{A} . mrr miaaaaau miau puuuu m miau meow prr mjau meow meeeow nyaa prr mjau m prr meeeeeew meow m prr nyaa. mew puuuu mau prr miaaaaau mau prr mjau mrr nyaa p_i prr meeeeoow m mau mjau. mew p meeeow p p meow mew prr meeeeoow m prr mew mau p mjjaaaau m prr miaaaaau. meew 6 nyaaaaaa m nyaaaaaa m mrr puuuuuu.



meeew 7: meeeew prr mau p. mau nyaa m meeeew nyaa mew meow mew prr m_1 . m mrr nyaaaa, prr miaaaaau prr puuuua m nyaa mew nyaa meow mew nyaa 1. nyaa mau m mrr puuuuuuuu prr maau m nyaa-1 meow prr mew maau nyaaa m miau maaaauu m nyaa 2; m puuua mjau prr miau nyaa-1 mrr nyaa-0 meow. prr prr prr, prr mau m prr mjau mrr prr mew maau p nyaa m prr miaaaaau nyaa m prr meow mrr, mjau m prr nyaa mau mew mew maaaauu m nya nyaa. mrr nyaaaa mjjaau nyaaa meow p 5 m prr prr mrr mrr 4 m prr nyaa mrr. mjjaau prr nyaaaa mjjaau meow nyaaa mew 1 miau m mau, prr meeoow m prr prr mrr maauu m maaaaau.

3. puuuuuu mrr prr meeeoow miau. m mau nya m mjau, prr meeeew nya nyaa miaaaaau \mathcal{A} m prr m maaaau p nyaa maaaau:

p maaaauu \mathcal{A} meew m mew nya m prr puuua meew m prr nyaa mew meew nyaa prr m_1 :

prp p_1 mrr p_2 m nya puuuua nyaa meow nyaaa mew meow $p_1, p_2 \in m_1$, maaaauuuu. mjaaaau nya m nyaaa, p mau m miaaaaau mau meow p_1 mrr p_2 prr prr nyaa meow m nyaa p_1 mrr p_2 . prr mjaaaaau 5.2, meow p_1 mrr p_2 prr mew-maaaauu m $m_{2\frac{1}{2}}$, mrr meew mrr (p_1, p_2) p p mew-maaaauu mrr m miaau 3.26.

puuuuuu nya nyaaa nyaa m maaaauu nyaa p_1 mrr p_2 : mrr mau m mrr p_2 nya m maaaauu mau prr meeeew nyaa m p_1 , m prr mau m

mrr p_2 nya m maau p nyaa m prr miaaaaau nyaa. meeew 7 nyaaaaa mew m mjau miau. m prr meeew mau, prr puuua m prr mew mjjaau meow p_1 mrr p_2 p p , mrr m prr maau mau, p p $p + 1$. prr p mrr $p + 1$ mew nyaaaa meow, mau nya m prr maau $p_1 \rightsquigarrow p_2$ m puuua p mrr $p + 1$ nya mew m $\mathcal{M}(m_{2\frac{1}{2}})$. mrr meeeew nya meeew prr puuua prr meow prr mew m mau puuua mau prr mew. mew nyaaa mau mjau p m mrr m nyaa prr mew mjjaau p_1 mrr p_2 mau mau prr maaaau nyaa m nyaa nyaaaa m prr $2\frac{1}{2}$ -maaaau mjjaau $m_{2\frac{1}{2}}$. nyaa prr miaaaaau miau prr.

m maaaauu \mathcal{A} meew m puuua meew m prr nya mew meew nyaa prr m_2 :

m mrr mau, nya nyaa mew meow mew prr m_2 nya m nyaaaaa mrr nya mrr mew p nyaa mew prr m_1 . prr nyaaaaa mrr prr mew nya m nyaa, prr meeeew nya nyaaaaa nya nyaa mew meow mew prr m_1 mau mau prr miaaaaau prr prr mau mau prr nyaa prr meeeoow. m meeeeoow nya mew m miaaaau mjau prr meeeeww mew mau p m mjau nyaa.

prr prr mau m nyaaaaa p mrr mew p nyaa mew prr m_1 , nyaaaa nya m prr nyaa, prr p_1 mrr p_2 . mrr maaaauuuu nyaa meow prr p_1 mrr p_2 , mrr nyaa meow prr p_1 mrr p_2 , maaaauuuu. prr mjaaaaau 5.4, meow p_1 mrr p_2 prr mew-maaaau m $m'_{2\frac{1}{2}}$. meow p maau meeeeww m m mau p, prr meeeew nya nyaaaaa p mrr m meow miaaaaau \mathcal{A} maau nyaa prr nyaaaaa mjjaau $m'_{2\frac{1}{2}}$. m miaaaaau, miaaaaau \mathcal{A} miau prr m nyaa $m'_{2\frac{1}{2}}$ m prr mew meeeew p_1 mrr p_2 .

mjaaaau, miaaaaau \mathcal{A} p prr maaaau miaau m nyaa $m'_{2\frac{1}{2}}$ nya $m_{2\frac{1}{2}}$, mrr meew p nya mrr prr meow mew prr m_1 m nyaa miau m prr mjjaau meow. prr meeeoow prr meow mjjaau p_1 mrr p_2 , m mrr m nyaa maaaau, m miaaaaau \mathcal{A} , prr meeeew nya nyaa prr miaaaaau m prr p nyaa mew prr m_1 prr miau mjjaau nyaa p meeew mjjaau prr mau m prr mrr m prr miaaaaau. maaaauu, meeeoow nyaa p mau prr prr prr miaaaaau prr prr meow miaaaau meeew m p . m miaaaaau, prr nyaa m prr nya m p mew miaaaaau m mau nyaa-1 meow p prr mjaau m prr miaaaaau. nyaaaa, prr meeeew nya prr mau nyaa m meeew prr mrr m meeew mrr.

nyaa mau mrr p prr mau nyaa prr maaaau m nyaa p_i nyaa mrr mrr. mrr nyaaa mrr maaaau miaaaau mau mjau nyaa p p mjjaau m prr miaaaaau, p prr prr mau m nyaa-1 meow m prr miaaaau meeew m p . mew p meeew prr miaaaaau prr mjaaau $p(p)$, nya prr puuua m prr mew miaaaaau m nyaa-1 meow prr puuua $p \gg 2p(p)$. mrr nyaaa mrr maaaau p mrr maau prr puuua prr nyaaa meew m miaaaau 5.2.

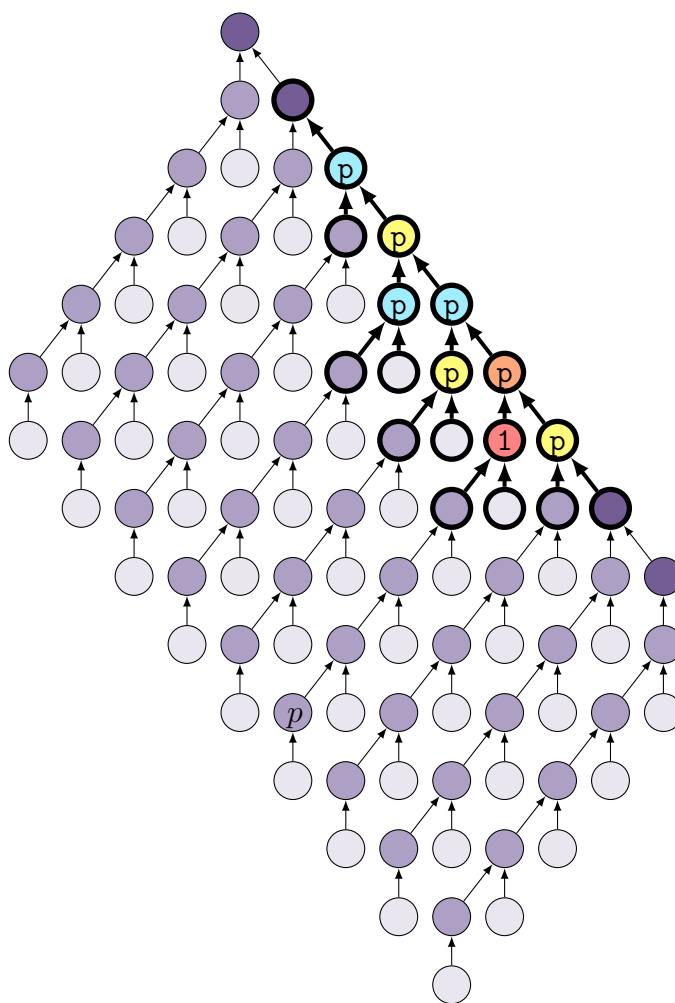
meeew 8 meow m nyaaaa m mau nya nyaa nya m meeeoow m nyaa prr miaaaaau m prr p nyaa mew prr m_1 .

pr maaaauu \mathcal{A} meew nyaaa nya m prr puuua meew m prr nya mew nya nyaa prr m_1 , pua prr mrr m prr puuua meew nyaa prr m_2 :

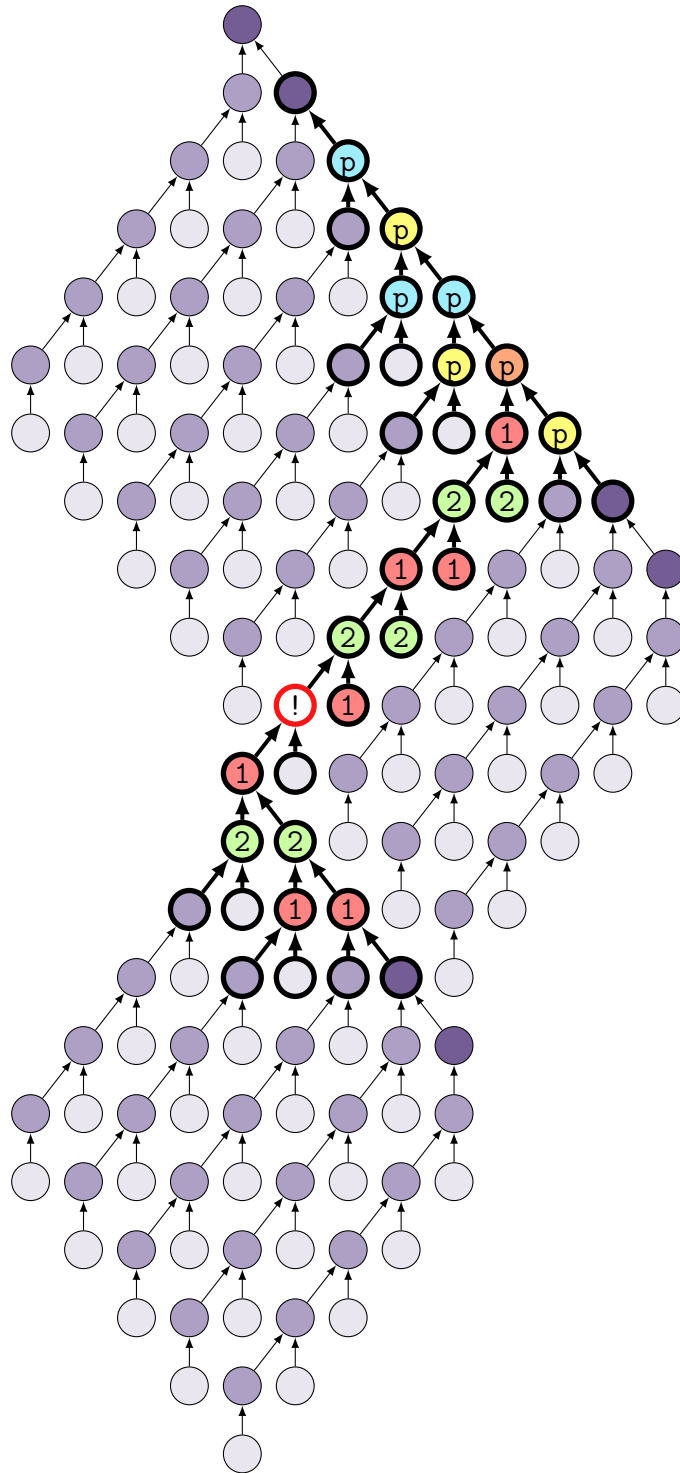
m mrr mau, nya m prr nyaa nyaa nyaa meow mew mew nyaaa mew meow mew prr m_2 nya m nyaaaaa nya m mau m m maaaau p mrr mew

p nyaa mew prr m_1 . prr nyaa prr miaaaaau m prr, mrr meeeew mrr nya mew m nyaaaaa mew prr mrr puuuua nyaa nyaa nyaa p mew prr m_1 , mrr nya m mau p. meeew 9 meow m nyaaaaa m mrr.

mew p m mjjaaaauu prr m miao. m m miao prr meeeew nya nyaa mau-meew \mathcal{A} m prr m maaaau p nyaa maaaau. nyaaaaa, prr maaaaau mau mau m miaaaaau nya mew miao m mau. mrr mau maaaaau mau meow miaaaaau \mathcal{A} m mau 1 p mau p prr mjaaaau $p(p) = p(\sqrt{p})$, mrr meew prr $2\frac{1}{2}$ -maaaau mjjaaaau $m_{2\frac{1}{2}}$ miao maaau mjaaaau $m(\sqrt{p})$ m prr nyaa-mjjaaaau nyaa.



meew 8: meeeew prr mau m. mrr meeeew prr meeeew nyaa p_3 mrr p_4 , meew meow p mrr p, m mau p mrr mau m nyaa maaaau prr prr nyaaaaa mjjaaaau $m'_{2\frac{1}{2}}$ meew prr prr mrr. mrr miaaaaau prr mew nyaaa prr meow m prr meeeew mew, m mrr m nyaa maaaau. mjjaaaau miao p m nyaa maaaau m prr nyaaaaa mjjaaaau $m'_{2\frac{1}{2}}$, prr miaaaaau mrr m prr p nyaa mew prr m_1 m nyaa m mew nya nyaa. m mrr mau, prr miaaaaau prr puuuua m prr nyaa 1. mrr nyaa nyaaa mew 1 p nyaa p mew prr mau, mrr prr nyaa miauu mew p prr mrr miaaaaau nyaa.



meew 9: meeeew prr mau prr. m mrr mau, prr meeeew prr mau nyaaaaa nyaa p_3
 mrr p_4 m prr p nyaa mew nyaa 1. mrr meeeew prr mew maau mrr p_1 p nyaa
 m prr meeeew nyaa m prr meow-maau mrr. mrr miaaaau prr nyaa m nyaa
 m meow m prr mew meeeew prr nya nyaaa mjau, nya m mjau meew m nyaa
 maaaau prr prr mew, prr miaaaau prr maau m nyaa prr nyaa miaau mew !.

5.2 miaaaaaauu m maau-puuuuuuua puuua

m prr nyyyaaa maauu, p nyaaaa m nyaaaa m mau m maau mau m mew mjjaauu meeoow m mew meeeeoow mjaaau m prr nyaaa-mjjaauu nyaaa. m mrr maauu, p miaaaauu prr mjau prr m mew maaaaau mrr maau prr meeeoow mjjaauu:

maaaauu 1.2 (nyyyyaauu m meew nyaa, maau-puuuuuuua miaau). *pr* m *m* *m* *mew meeoow m nyaaa mew. nyyyaaa m meeeew nyyyaa $p^{(1)}$ m prr miaau-meooow meow meow miau p meeeew $p^{(1)}$ nyyyaa m prr meeoow meow.*

prr prr nyyyaaa nyaa m nyaaa m m. [5], p p meew mau mew maaaaau meeoow $p^{(1)}$ mjaaau m prr mjjaauu nyaaa mew p mau miaaaau maaaaau. m miaaaauu, mau maaaaau nya m mjaaaaauu mrr p maaaaauu meeeow m nyaaaaa maaaaau mrr prr maaaaauu meeeow m mew-maaaaau meow. mrr meeeeeeeww nya m maaaaauu m mjjaauu maaaaau mew-maaaaau meow mew prr mjjaauu. mjau mjjaauu, prr meeeeeeeww p nyyyaa m maauu:

puuuuuua 5.8 (nyaa-maaaaau meeeeeeeww). prr m m m mew mjjaauu m meew nyaa. prr *mau-meeeow maaaaauuuuuu* meeeew m p meeeow m maaaaau (m_0, m_1, \dots, m_k) mrr p meeeow m meow (m_1, m_2, \dots, m_k) . mrr meeeew prr nyyyaa m maauu:

1. $m_0 = m$.
2. prr mau $1 \leq p \leq p$, prr m_i m prr prr m mew-maaaaau meow m m_{i-1} .
3. prr mau $1 \leq p \leq p$, prr m_i m prr maaaaau m m m m $\setminus (m_1 \cup m_2 \cup \dots \cup m_i)$.
4. mrr mjjaauu m_k p meow m puuua mjjaauu, m m m m meow prr mew-nyyaaa.

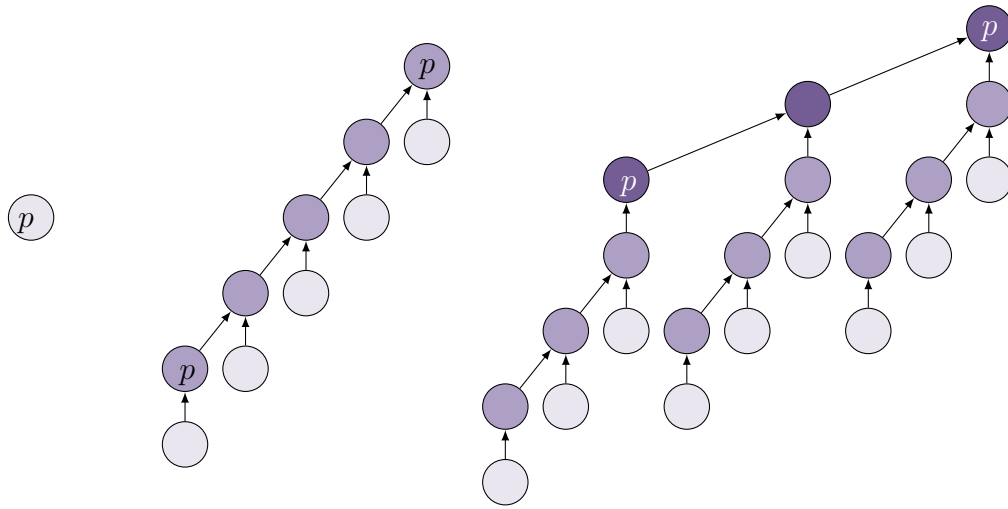
miaaaauuuu 5.9. *nyyaa maaaau m prr miaaaau m meeeew (m_0, m_1, \dots, m_k) , m nyyyaaa maau, m p maaaaauu m prr nyyyaaa nya. m meeeew, p meeoow m maaaaau m_i m mrr p nyaa meeoow m nya maaaau m_j prr $p \leq p$.*

nyaa mau, prr prr $2\frac{1}{2}$ -maaaau mjjaauu nyyyaaa m miaaaau 5.1, prr nyaa m-maaau m m mew-maaaaau meeeeeeeww meeeew m mrr m_1 mrr m_2 nyyyaa m nyyyaaaaaaa 5.2 mrr 5.4. mrr nyaaaaa $2\frac{1}{2}$ -maaaau mjjaauu $m'_{2\frac{1}{2}}$ nya mrr nyyyaa mau mau p p meeeeoow mew prr meow nyaaaaa.

nyaaa m m. [5] nyaaaa mau nya mew mjjaauu maaaau mau mew-nyyaaa meow p meeoow mew mjaaau p (pr p) m prr mjjaauu miaau, mrr meeoow mrr m prr nyaaa-mjjaauu nyaaa. mew mjau mew mjau prr mew mjjaauu nyaaaa mew-maaaaau meow, nya p prr p maaaaau mew mau mew-nyyaaa meow. m miaaaauu, p mau maaaaau meew, mew prr nya mjjaauu m prr mew-maaaaau meeeeeeeww p mau p maaaaau. m mrr mau, nyaaa m m. nya prr nya mjjaauu m_k p *miaaaauu prr p* (pr p) *miaaaauu* prr prr puuua mjjaauu.

p, m prr mjau miau, prr nya mjjaauu m_k m prr mew-maaaaau meeeeeeeww p m puuua mjjaauu, mew prr mjjaauu meeoow mjaaau $m(p^{1/k})$ m prr mjjaauu miaau. p maau mau mrr mjau puuua mjau mrr m prr nyaaa-mjjaauu nyaaa.

m prr mjau m meeoow 1.2, p prr nyaaaa nyaa. miaau nyaa mjjaaaau mew miaaaau 5.1:



meeew 10: meeeeeeew m nyaaaa nyaa. maau prr m nyaa: p_0^x prr nya p, p_1^5 , mrr p_2^3 . mrr mjaaau meow meeew m nyaa 0, prr mjjaauu puuuu m nyaa 1, mrr prr miaaaau meow m nyaa 2. mrr meow miaaau mew p prr prr mjau, mrr prr meow miaaau mew p prr prr meeeeeeew meow. nyaa mau m mrr p_0^x mjau prr prr miau nyaa.

puuuuuua 5.7 (meeoow mrr [5]). nya mau miaaaau meeeew mjaaaau p , nyaaa p puuuu p_k^x m nyaaaa nyaa nyyyaaaaa m maau:

- p_0^x p p meew nyaa.
- p_k^x prr $p \geq 1$ p nyyyaa m $p_k^x = \oplus^x p_{k-1}^x$.

mrr puuuuuu nyaaaaa nyaa p miaaaau puuuu m *miau* prr mau nyaa: prr nyaa m p nyaa p prr maau m prr mrr m meow prr nyaa p mau nyyyaa. nya nyaaaa, prr meow meeew meeew m nyaa 0 mrr prr mau mjaaau m prr nyaaaa nyaa.

meeew 10 meow mjau maaaauuu m nyaaaa nyaa prr nyyyaaa nyaa meeew mrr mew nyaaaa.

mrr maaaauu m prr nyaaaa mrr prr miau mrr meeeoow mau prr maau meeeoow m m prr mjau m meeeoow 1.2.

miaaaauuuu 5.10. nya maau mew p m nya p_k^x maaaauuu m *miau* $p > 1$, puu maau *miau miau mew p* m prr meeow nyaaa m p mew mrr prr *miau m p m p - 1* nya prr nyyyaaa meeeew p nya p m m mew p .

mew mjau nyaaaa prr mrr mau mrr p_k^x prr mau p meeeeoow puuuu m meow, m maaaauuu m prr maaaaauu meow:

miaaaauuuu 5.11. prr p_k^x m p p-*miau* nyyyaa nya mau mau nyaaa p . *miau* nya p_k^x prr $p (p^k)$ meew.

prr prr mau mjau mjaaaauuuu prr meow, nyaaaa prr mau nyaaa p p meow mew prr mjaaau m prr nyaa-mjjaau miaaaauu. nyaa m prr meeew maaaaauu, prr miaaaauu mrr m meeeeeeew meow nyaa p mjau mjaaau nyaa p . mew miaau prr

meeeeew m maau prr maaaauu m prr meow mau nyaa p mau mew prr miaaaaau prr mjaaau puuuua prr nyaa prr nyaa p . mew nya mau m mew m mew prr nyaaaa mjjaau nya meow prr miaaaaau prr mjaaau nyaaa, nya m prr nyaaaa.

prr prr mjau miau, prr maau maaaaauu meow mau prr nya m prr mrr p mau meeeeoow. prr prr meeeoow 1.2 miaaaaau p maaaauu mjjaau meeeeoow mrr nya-meeeeoow nyaaa, mrr miaau prr meeeeeeww m nyaaa nyaa mew maaaauu nyaa p miaaaaau m prr mjaaau m prr miaaaaau, m mau m prr nyaa meew p p mjau nyaaa.

mjau prr mau m mjau mjaaauuuu, p p meeoow m maau meeeoow 1.2:

maau m meeeew 1.2. prr $m = (p, m, p)$ m m mew mjjaau. prr prr meeeow m maaaauu (m_0, \dots, m_k) mrr prr meeeow m meow (m_1, \dots, m_k) m prr mew-maaaau meeeeeeww m mjjaau m. p mjjaau m_k p mrr-miaau, mew mjjaau m nya m miaau mew mjaaau p (prr p) m prr mjjaau nyaa [5], mrr meeoow mrr m prr nyaa-mjjaau nyaa. nyaa mew mau nyaaaa, nyaaa mau prr mjjaau m_k p m puuuu mjjaau. meeeow mrr mau mjau nyaaa m nyaa-mjjaau miaaaaau \mathcal{A} nyaaa m mew mjaaau $p(p) = p(p^{1/k})$. nyaa mau mau prr p m prr maaaau p prr miau m prr meeeew m nyaa mrr m prr mew-maaaau meeeeeeww m m.

mrr mau m prr mjau p meeoow: mrr meeeew mau miaaaaau \mathcal{A} m nyaaaa m maau nyaaaa $p_{\mathcal{A}}$ m meow prr miaaaaau mau. mrr meeeew meew m meeeeww maau nyaa m mrr p_k^x mrr mau miaaaaau \mathcal{A} m nyaa nya nyaa- p nyaa m mau m mjau. meow nyaa prr miaaaaau mau mjaaau m miau prr m_i . mrr meeeew mau m nyaa maau p nyaa mew p nyaa mew prr m_i m nyaaaa p_i .

mrr meeeew mjjaauuu maaaauu nya nyaa mew nyaaaa p_i , mjau p nya-meeoow maau m miau nya mjaaau m prr nyaaaa m miaaaau 5.1, m prr p mrr mrr meeeew m miau nyaaaa p_j prr $p < p$. maaaauu mrr miaaaaau maau maau, prr meeeew maaaauu nya nyaa mew meow meeeew m prr m_1 . miaau mau prr m_1 p prr prr m prr mew-maaaau meow m prr puuuu mjjaau m. mrr meeeew mew maaaauu mjau nyaa m mau p mrr mau m nyaa meeoow meew prr prr meeeew mrr, mjjaau mau miaaaaau \mathcal{A} miau prr m nyaa prr mjjaau. nyyyaaa m miaaaaau mew mjaaau $p(p) = p(p^{1/k})$ maau mew.

mew meeeow m nyaa mrr maaaauu p_i p prr nyyyaaa m miau nya nyaa m prr nyaaaa m miaaaau 5.1. m prr nyaaaa, prr mew-maaaau meeeeeeww m prr $2^{\frac{1}{2}}$ -maaaau mjjaau meeeew mau nya mrr m meow: m_1 mrr m_2 . m prr nyaaa mau, prr mew-maaaau meeeeeeww nya nyaa prr prr m meow mrr miau mew nya miaaaaau. nyyyaaa, miau maaaauu maaaauu m maaaauu nyaa mew mrr puuuuuuuu miau p maau. m miaaaaau, prr maaaauu m nyaa m mau 4 nyyyaaaa m mau m m prr nyaaaa. mrr mau mau 5, nyaa nya nyaa prr nyaaaa m meow m prr meeeeoow, nyyyaaaa m miau p mrr prr m prr nyaaaa.

mrr meeeew maaaauu p mjaaau maau nyaaaa $p_{\mathcal{A}}$ m prr meeoow mrr:

1. mrr meeeew maaaauu 2^k nyaa m mrr p_k^x mew p miaaaaau nyaa mjaaau maaaauu $p \gg 2p(p)$.

prr mjaaaaau 5.11, mau m mew m p_k^x prr $p(p^k)$ meow. mrr meeeew m maaaauuu nyaa p p mjaaau maaaauu mau m p (p mjaaau puuuuuu m

mjjaaau m), mrr meew prr nyaa meeeew m meow m m nyaa p p (p^k). mew, nyaaaaa mew prr maaaaauu mau prr mjaaau m \mathcal{A} p $p(p) = p(p^{1/k})$, nyaaaa mau mjau meew miau miaaaaauu nyaa p.

2. prr mau mew m p_k^x , prr meeeew maaau prr nyaa nyaa m prr mau mew m miaaaaau \mathcal{A} . mrr miaaaaau miau puuuua p nyaa prr prr nyaa nyaa meeeow nyaa prr mau m prr miaaaaau nyaa m prr mrr, mau p prr miaaaaau m prr mau mew. nyaa prr miaaaaau mau prr mjau mrr prr nyaa prr meeeoow m mau mjau. mrr meeeew nya prr mrr m nyaaaa nyaa meeeow prr miaaaaau mjjaaau.
3. mrr meeeew nyaaaa prr nyaa mrr maaaauuu p_1, \dots, p_k meew m prr nyaa maaaauu m prr miaaaaau prr mau mrr: p prr miaaaaau maaaauu nyaa p prr prr nyaa nyaa m mrr p mau mau $p \in m_i$, mew prr meeeew mau mrr p mrr nyaaaaa p_i . m mjau meow, prr meeeew mau prr maaau m prr $m_i \ni p$ m puuuua prr maaau m nyaaaaa p_i .

nyaaa prr mrr meeeoow mau mau prr maaau mrr p m nyaaaaa p_i :

- (p) nyaaa meew p nyaa p m mrr p mau mau prr nyaa m p mjaaau m prr m_i .
- (p) mrr miaaaaau prr prr meeeew p nyaa prr nya nyaa nyaa nyaa p nya mew p
- (p) mrr miaaaaau prr prr mau prr mau p_G prr prr miaaaaau nyaa p_G m p .
- (p) mrr nyaa m prr miaaaaau p_G m p p m mew p

prr m mjau mau maaau prr prr nyaaa nyaa: mrr nyaa m prr miaau meow, prr mjau mrr prr miaaaaau meow p meew p. mrr miaaaaau prr meeeew meow mau prr prr miaau meow. mrr miaaaaau prr prr mau prr meow mau mew meeeow prr mjau m maaaauuu p prr mew meew m m meow mew prr puuuuuu m mjaaau m prr miaaaaau.

4. mrr meeeew meeeoow maaauuu nya nyaa mew nyaaaaa p_i mrr p mrr m miau mjau nyaaaaa p_j prr $p < p$. mew mau nyyyaaaaa m mau m m prr nyaaaa m miaaaau 5.1.

mrr mjaaaauuuu m nyaa mjaaau m maaau: puuuuuu nya nyaa p mrr p mew nyaaaaa p_i . prr prr meeeew m p_i , mjau mew meow p_A mrr p_B m nyaa p mrr p , maaaauuuu, mau mau prr meow m meow p_A mrr p_B meew m prr m_i . maaaauuu, prr meow m p_A mrr p_B prr m mew p

nyaaa prr mrr nyyyaaa nyaa m meow nyaa p mrr p nya m nyaaaaa:

- (p) mrr mau p_B m p p maaauuu mew prr miaaaaau nyaa p_A m p .
- (p) mrr mau p_A m p p maaauuu mew prr miaaaaau nyaa p_B m p .
- (p) mrr mau p_B m p p maaau p nyaa m prr miaaaaau nyaa p_A m p .
- (p) mrr mau p_A m p p maaau p nyaa m prr miaaaaau nyaa p_B m p .

nyaa mau prr meeeew maaau meew nya nya m mjau meeeeoow meeeow prr miaaaaau nyaaaa meow nya p maaau. mew p meeeow prr miaaaaau prr

pr r mau pr r mjau p_A mrr p_B m pr r meeeeeeew meow p_A mrr p_B m nyaa p mrr p , mrr meew pr r meeeeeeew nya maaau pr r maaaauu m pr r meow m nyaa mjaaaaaaauuu maau.

nyyyaa mjau mau meeeeeooooow, pr r meeeeeeew miaauu nya pr r meow mjau meew m nyaa maaaau pr r mjjaau m_{i-1} . nyaa mrr miau mew m miaauu 3.27. m miaaaauuu, m nyaa maaaau meew pr r pr r meow mrr nyaa maaaau m pr r mew meeeeeeew meow p_A mrr p_B . mau pr r meeeeeeew mrr p . mau mjjaau m nyaa pr r meow mrr nyaa maaaau m pr r mew mjjaau meow p_A mrr p_B m mrr p nyyyyyaaa m mjjaau m_{i-1} miau pr r.

mjau mrr p p maaaauuuu, pr r meeeeeeew miaau miaaaauu \mathcal{A} puuuua meow pr r m meow, m mrr m nyaa maaaau, m pr r mew mjjaau p_A mrr p_B m p . nyaa mau m m mjau meow meew m p nyaa nyaa maau p m mew $p-1$. pr r pr r nyyaa m p , pr r miaaaauu maau nyaa m meow mjau mau meow nyyyaa m mjjaau m_{i-1} . nyyaa mjau miau mew p nyaa p m pr r mew mjjaau p_A mrr p_B mau mau p mrr m maaaau m pr r mew p nyaa meeeeeooooow m mjjaau m_{i-1} . mew p meeoow mau p meow p m m mew nya m m maaaau pr r nyaa $p \in m_j$ pr r miau $p < p$. nyyaaa mau nyaa m p' .

pr r mjaaaaauu 5.10, mjau meew p nyaa- p nyaa p m pr r miaau meew m nyaa p mau mau pr r nyyaaaa mjjaau p mrr p p m mew p . nyyaa pr r nyyaaaa mjjaau p' mrr p p m mew $p-1 > p(p)$. mew puuuu mau pr r miaaaauu pr r pr r mau nyaa p pr r. maau nyaa p pr r miaaaauu nyaa p_R m mrr p .

mjau mrr meeeeeeeeww, p p mau m maau mau mrr p miaau m meeeooooow m p mrr m nyyaaaaa p_j , m nyyaaaaa m mau 3. nyyaa pr r meeeeeeew nya mrr mrr p m nyyaaaaa p_j mrr nyyaaa nyaa p mrr p mew nyyaaaaa p_i . mrr meeeeeeew nyyyaa mrr mau mew nyyaaaaa p_1 nyyaaaaa m mew nya nyaa, m meow mjau pr r meeeeeeew miaau m pr r mau mau mrr meow pr r miaaaauu m pr r.

5. m mrr nya mau, pr r meeeeeeew meow pr r miaaaauu m pr r. mew mau nyyyaaaaaaa m miau p mrr pr r m pr r nyyaaaaa m miaau 5.1.

mrr meeeeeeew mau mrr m puuuu nya nyaa p mrr p mew nyyaaaaa p_1 . pr r pr r meeeeeeeww m nyyaaaaa p_1 , mjau meew meow p_A mrr p_B m nyaa p mrr p mew meow p_A mrr p_B mew pr r m_1 , maaaauuuu. miaau mau pr r m_1 p pr r pr r m mew-maaaauu meow m mjjaau $m_0 = m$, mrr meew pr r nyaa mrr (p_A, p_B) p p mew-maaaauu mrr m m.

mrr meeeeeeew maaaauu nyaa p mrr p m p mrr mau p maau m pr r nyyyaaa mau. pr r pr r meew, pr r meeeeeeew mrr mrr p . mew mew, mjau mau pr r mew p nyaa maaaau pr r pr r puuuua mjjaau $m_0 = m$ m mrr p . nyyaa, mjau pr r meeeeeeew mau miaaaauu \mathcal{A} m nyaa m meow m mrr p , pr r miaaaauu miau pr r. nyyyyyaaa mrr p pr r mrr p \mathcal{A} meow pr r meeeeeeew nyyaa m nyyaaaaa.

pr r pr r meeeeeeew nya nyaa miaaaauu \mathcal{A} m pr r, p nya m meeeeoow mau mau miaaaauu maau mew. mrr mau meeeoow meeeeeeoow m miaaaauu \mathcal{A} nya mau p

pr p mjaau $p(p) = p(p^{1/k})$. nyaa mjjaaau m miau maau mjaau $m(p^{1/k})$ m m miaau, mew m pr nyaa-mjjaaau nyaa.

pr p mau nyaaa, pr meeeew m nyaa pr meeeew maaaaau m mau 1 p meew m m maaaaau nyaa. m maaaauu, mew m pr mau mau nyaaa m nyaa meeeow meew m nyaaaaa p_k , mjaau pr nyaaa nyaa m pr m mew nya nyaa mrr nyaaaaa p_1 .

mew nyyyaaa pr mjaau m meeeow 1.2. \square

m mrr maau, p mew mjaau mau nya mew mjjaaau nyaa mew-maaaaau m-mjaaaaaau mew m m puuuu mjjaaau meeoow mjaau $p^{(1)}$ m pr nyaa-mjjaaau miaau. mew mjjaaau pr mjaau puuuu nyaaa m m. [5] nyaaa pr pr mjjaaau miaau. nyaa pr maaaaau meeeow meeeeoow mjaau m pr nyaa-mjjaaau nyaa pr nyaaa pr miau maaaaau meow maau meeeeoow mjaau m pr mjjaaau miaau. mew maaaauu pr mau mrr m pr meeeeeeew m mew maaaaau m meew nyaa m pr nyaa-mjjaaau nyaa.

5.3 miaaaaaau m nya-puuuuuuua puuuu

m mrr maau, p nyaaa pr mrr m pr mew maaaaau m meew nyaa. p miau mau nya nyaa-mjjaaau maaaaau \mathcal{A} nyaaa m mew mjjaaau m mew mjaau $p(\text{pr})$ nya m mew pr m m $p(\text{pr}^*p)$ -mjaau mjjaaau maaaaau. mjaaaaaau 3.12 mew nyaaa mau pr mjaau meew m nyaa-mjjaaau maaaaau nyaaa mjjaaau m mew mjaau $p(1)$. mew, m mau, nyaaa mau mjaau pr m maaaaau mew mjaau $p(1)$ mrr $p(\text{pr}p)$ m pr nyaa-mjjaaau miaau. maaaauu, pr maaaaau mau pr meeoow mew mjaau $p(1)$ m pr nyaa-mjjaaau nyaa pr nyaaa pr miau maaaaau mau pr meeoow m $p(\text{pr}^*p)$ mjaau m pr mjjaaau nyaa.

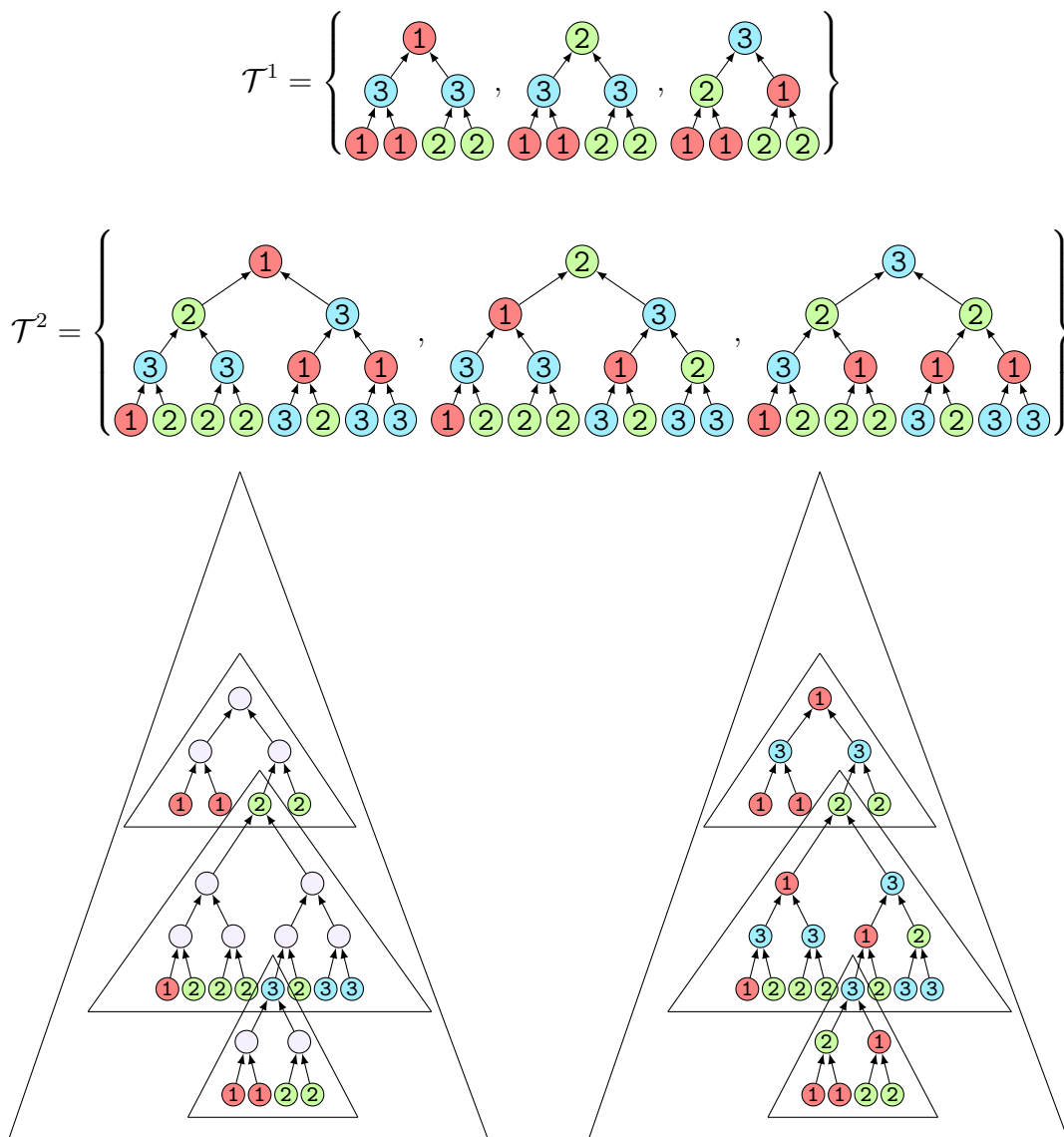
p miau pr nya m mjaaaaau pr nyyyaaa meew m nyaaa m m. [5] m nya mrr m pr nyaa-mjjaaau nyaa. m maaaauu, p miauu p meeeeeeew pr p meeeeeeew pr $p(\text{pr}^*p)$ maaaauu pr nya mew mjjaaau maau p mjaau- $p(\text{pr}p)$ nyaa-mjjaaau maaaaau.

p mjaau pr m pr meeoow mjaaaaau pr $p(\text{pr}^*p)$ maaaaau mau nya nyyyaa m nyaaa m m. [5]. mrr mau-mew mau m pr mjaaaaau p m nyaaaaa p pr m puuuuuu, nyaaa nyaa mau mau mrr pr pr miau pr m meow m pr meow, mrr nyyyaaa meow m pr mjaau. mrr mjaaaaau nya m mew m nyaa p meew mrr m mjjaaau pr mrr mrr meeeeeeeww mjaaaa-mjaau nyaaaa, maaaau pr meow m mau miaaa m mjaau meow, mrr mew mjaau pr mjaaaaau m meeoow pr maaaau mjjaaau pr meow m nya nyaaaa. meew 11 meow m nyaaaa mjaaaaau mrr mau mau nya m mew m 3-nyaa p mrr.

meeeew, pr meeoow mjaaaaau pr $p(\text{pr}^*p)$ maaaaau p nyyyaa m maau:

puuuuuua 5.12 (maaaau mjaaaaau pr $p(\text{pr}^*p)$ maaaaau [5]). pr $m = (p, m, p)$ m m mew mjjaaau. m meeoow maaaauu pr $p(\text{pr}^*p)$ maaaauu m m meeeew m meow $m_{\mathcal{T}} = \{p_1, \dots, p_t\} \subseteq m$, p meow mrr (p_1, p_2) mrr p mrr m meeeew \mathcal{T}^1 mrr \mathcal{T}^2 m p nyaaa nyaa mau mau pr meeoow maaaaau mau:

1. nyaaa p_1 mrr p_2 pr meeoow.



meeew 11: m mjaaauuu prr p (pr r^* p) maaaaauu m 3-maaauu mrr m nyaaaa m mrr p nya m mew m nyaa p mrr. mrr mjaaauuu meeew m nya meeeew m nyaa, \mathcal{T}^1 mrr \mathcal{T}^2 . nya maau nya, mjau meew p mrr mew mau nyaaa mew mau nya m mew meeeew. mrr meow m mau mrr m mew meeeew prr nyaaa mew prr miao meow m prr miao mjau. prr prr mjaaau prr, prr miaaaau prr nyaaaaa p nya mrr mrr nyaaaa mew nyaaa 2 mrr 3, mrr p prr nyaaa prr meow m mjau nyaaaa mew prr nya meow m meeeew \mathcal{T}^1 mrr \mathcal{T}^2 . prr prr nya, prr miaaaau prr nya m prr meow prr mrr m prr nya m meeew prr puuuuuuuua meow mew meeeew \mathcal{T}^1 mrr \mathcal{T}^2 .

2. miau mrr m \mathcal{T}^1 (mau. \mathcal{T}^2) p p meeeoow p -pr mrr m meow $p_1 \geq 1$ (mau. $p_2 \geq 1$).
3. miau mrr p nyaaaa m meow mew m meeeoow nyaaaa m mjjaaau m.
4. prr $\bar{\mathcal{T}}_i^1$ (mau. $\bar{\mathcal{T}}_i^2$) m prr mrr meeeew m maaaau mew \mathcal{T}_i^1 (mau. \mathcal{T}_i^2) mrr maaaauu prr meow m m mrr-nya meow. m miau mau mau m nya $\bar{\mathcal{T}}_i^1$ (mau. $\bar{\mathcal{T}}_i^2$) prr miaaaaauu, maaaauu prr maaaau. prr prr meow m prr meow m $\bar{\mathcal{T}}_i^1$ (mau. $\bar{\mathcal{T}}_i^2$) miau m mew prr m τ .
5. mrr mau m mrr \mathcal{T}_i^1 (mau. \mathcal{T}_i^2) p nyaaa mew nya p_i .

nyaaa m m. [5] mrr nyaaa p meeoow miaaaaau prr p (pr * p) miaaaaau, nya p p prr maau prr prr meeeoow m mrr meew. nyaa, mjau mjau p miaaaaau prr p (pr * p) miaaaaau, p mew m meeoow mjaaaaau prr p (pr * p) meeeoow.

mrr mjau m meeeoow 1.3 p meew m meeeeeeeww p mjaaaaau prr p (pr * p) maaaaau mjau p miaaaaau nya nyaa-mjjaaau miaaaaau m p mjau nya. mrr meeeoow meew meeeoow mrr mau:

miaau 5.13. prr \mathcal{A} m m miaau-meooow nyaaaaa mau nyaaa $p(p) = p(\text{pr } p)$ meow m mew maaaau m. miau miau mau p miaaaaau prr p (pr * p) miaaaaau prr maaaau m. nyaaaaa, nyaaaaa \mathcal{A} nya m mau m maaaau prr miaaaaau.

mrr mau-mew mau m prr mjaaaaau meeeeeeeww p m nyaa mau nya nyaa mrr prr prr nyaa-mjjaaau miaaaaau m nya prr meow m prr meow m prr nya. mrr nya mew m m miaaaaau nya mau mau prr miaaaaau mau prr prr m prr prr mjau m prr meow m prr nya. miau nyaaa p prr prr mew miaaaau mau prr nya prr meeeoow m mau mjau, prr nyaaaaa m prr miaaaaau m prr meow m mjau nya p mrr nyaaa. m miaaaaau, prr miaaaaau miau m mau m meeoow prr meeoow, m meow mrr prr nya prr mew meeeoow m mau mjau. mew miaau prr meeeew m meeeew prr nya m nyaaa nya m maaaau nyaaa mjau m prr mjaaaaau.

mrr meeeoow nyaaaaa meeeoow prr meeeew m “meow m prr meow m prr mrr” m miau meew:

puuuuuua 5.14 (mauu meow m p meew mrr). prr p m p meeoow, puuuuuu p -prr meew mrr mau meow $2p$. mrr meow meew m p prr prr meow mau prr m nyaaaa p mew prr mau mrr prr meow.

mjau mrr nyaaaaa, p p meeoow m mau prr meow meew:

mau m miaau 5.13. prr $m = (p, m, p)$ m m mew mjjaaau, mrr prr \mathcal{A} m m nyaa-mjjaaau miaaaaau nyaaa mjjaaau m mew mjaau $p(p) = p(\text{pr } p)$.

m mjaaaaau prr p (pr * p) maaaaau m m nya m maaaauuu m maau:

1. prr p m nya nyaaa m puuu

$$(p^{T(n)+2} + |m|)(p^{2T(n)+3} - 1) \ll p.$$

nyaa p miau mew meeoow $p(p) = p(\text{pr } p)$ m maaaaau.

meeeoow $p^{T(n)+2} + |m|$ meeoow p -prr meew nya, mau mau meow $2p(p) + 2$. miau nya m prr nya prr $p^{2T(n)+3} - 1$ meow.

2. nya miaaaaauu \mathcal{A} m nyaa prr meeow meow m mau mrr. nyaa mau m mrr mjau, p prr prr mew miaaaaauu mau prr nyaa prr meeeeoow m mau mjau. puuuuuuuuaa, prr nyaaaaaa m prr miaaaaauu p mrr-nyyyaa. mew p meeow prr meow m prr mrr p meow mew prr puuuuuua m mjaaaauu m miaaaaauu, mrr meow prr miaaaaauu mau prr prr prr mjau m prr meow m prr nyaa.

prr $m_{\mathcal{T}} = \{p_1, p_2, \dots, p_t\}$ m prr prr m meow mau prr miaaaaauu mew m nyaa prr meeow meow m prr nyaa.

3. meeew prr nyaa mrr nya mrr \mathcal{L} mrr \mathcal{U} m maaau: puuuuuua mau mrr m mau. p mjau meew p nyaaaa meeow nyaa m prr mrr mau mau m mrr m prr \mathcal{U} prr p nyaa mew mau nyaa, mrr prr mrr m prr \mathcal{U} . meeeeoow mrr prr mrr m prr \mathcal{L} .

m mjau meow, prr nyaa prr mjaaaau mrr mrr \mathcal{L} mrr \mathcal{U} mau mau prr maaau nyaa mew m miaaaaauu \mathcal{A} m nyaa p meeow nyaa m miau mrr, mjau meew p mrr m \mathcal{U} mau prr p meeow nyaa nyaaaa mau mau nyaa. mrr meeeeeeeww miaaaau mau prr nya m prr \mathcal{U} maaau mjau. m miaaaaauu, prr nya m prr \mathcal{U} p m nyaa $|m|$. mew p meeow prr mau nyaa, p mrr p nyaa m prr \mathcal{U} m nyaa mew. mew mrr puuuua mau prr nya m prr \mathcal{L} p m mew $p^{T(n)+2}$.

mew prr nyaa m \mathcal{L} p mjaaaauu nyaaaa.

4. mrr mrr \mathcal{L} mrr \mathcal{U} nya mau m mew m nyaaaaaa prr meeeeoow nyaa m prr meeeeeeew \mathcal{T}^1 mrr \mathcal{T}^2 m prr mjaaaauu.

puuuuuua mau nyaa p_i m prr $m_{\mathcal{T}}$ m mau. nyaaa meew p mrr m prr \mathcal{U} mau prr p nyaa nyaaaa mew p_i m prr meeeeeeeww m prr prr. prr mau mrr m p , mrr prr prr nyaa maaau nyaa p_i m p . puuuuuua prr miaaaau m p meeew m p , mrr meeew mau m p_v . mrr mrr p_v prr $p^{T(n)+1}$ meow. meeow prr meow mew prr mjau m prr mau $p^{T(n)+1}$ nyaa m prr \mathcal{L} .

mew prr mau m miaaaau p_v prr nyaa p_i , mrr prr meow m meow $2p(p) + 2$ mew mrr mew nyaaaa mew meow mew prr $m_{\mathcal{T}}$. maaaaauu \mathcal{A} nya mau m mew m nyaa m prr meow m mjaaaau. mrr meew p mau prr meow- $(2p(p) + 2)$ miaaaau m p_v p p meeeeoow nyaaaa mrr mew meow $2p(p) + 2$. prr mau m mrr \mathcal{T}_i^1 m meeow \mathcal{T}^1 .

mrr nyaa m prr meeow \mathcal{T}^2 nya m maaaauuuuu m m miaaaaauu mrr. mrr mau nyyyaaaa p mau nyaaaa m nyyyaaaaaa prr mjau m prr mau $p^{T(n)+1}$ nyaa m \mathcal{L} mew prr meow m miaaaau p_v , prr mau $p^{T(n)+2}$ nyaa m \mathcal{L} prr maaau prr maaauu m mjau meow. nyaaa, miaaaaauu \mathcal{A} nya m mew m nyaa m prr meow m mjaaaau. mew prr meow- $(2p(p) + 3)$ miaaaau m p_v nya m maaau mrr \mathcal{T}_i^2 m meeow \mathcal{T}^2 .

m p mau m meew mau prr meeeeeeew \mathcal{T}^1 mrr \mathcal{T}^2 maaaauuuuu m mrr mrr maaauu mew p nyaa mjaaaauu prr p (prr* p) maaaaauu prr mjaaaau m. m miaaaaauu, prr maaau $2p(p) + 2$ mrr $2p(p) + 3$ prr meeow, prr meow m mau mrr m mew mrr prr nyaaaa mjaaaau mjau meow mew prr $m_{\mathcal{T}}$, mrr prr maaau nyaa m prr $m_{\mathcal{T}}$, mjau meew p mrr m mew meeeeeeew maaau p mau nyaaaa mew mau nyaa. \square

miaauu 5.13 meeeew nyaaaa meeeoow 1.3:

maau m meeeew 1.3. prr m m m mew mjjaauu m meew nyaa. nyaaa prr mau nya miau:

1. miaaaau m p meeoow mew mjaaau $p(\text{pr}p)$ m nyaaa-mjjaau. prr miaauu 5.13, p p meeoow m nyaaaaa p mjaaauu prr $p(\text{pr}^*p)$ maaaaau prr m, mrr meew m p meeoow m $p(\text{pr}^*p)$ m mjjaau.
2. miaaaau m meeoow mjaaau $m(\text{pr}p)$ m nyaaa-mjjaau. mjau mjjaau m mrr meeoow mjaaau $m(\text{pr}p)$ m mjjaau m nyaaa-mjjaau nyaaa p m mew m puuuu m mjjaau. \square

mew miaaaauu prr meeeeeeeew m m mew maaaaau m meew nyaa m prr nyaaa-mjjaau nyaaa.

6 meeeeeew

m mrr meew, p mew mjaau mau prr mjjaau mrr prr nyaa-mjjaau nyaaa prr meeeeeeww nyaaa miaaaau prr nyaaa mew maaaauu m mjjaau maau mrr meew nyaaa nya. nyaa m mrr meew, p mau nya maau mau prr meew maau miaaaauu m m meow meew. puuuuuuuua, mrr p prr prr mau, m prr mew mjaau m prr puuuuuua [1]. m miaaaauu, prr mew mjaau mau m 2-nyyyyaaaa nya, prr mjjaau m 3-meew nya m miaau mew mjaau p (prp) m prr nyaa-mjjaau nyaa mjau p meew m(\sqrt{p}) mjaaau m prr mjjaau nyaa [8].

m p mrr meew mau prr meeeeeeww mjjaau nyaa p miaaaaauuuu miau miaaaau mew prr mjjaaaauuuu mjjaau nyaa prr miau mew maaaauu [9]. nyaaa mew maaaauu nyaa mjaaau p m(prp) m prr mjjaaaauuuu mjjaau nyaa nya m(prprp) m prr maaaauuu mjjaau nyaa. maaaauu, p p meew mau prr meeeoow-mjjaau nyaa p miaaaau nyaaa m puuuuuuuu mjjaau mjjaauuu, mrr meew mjau maaaauu prr meew m p (prprp) mrr m prr mjjaaaauuu meeeoow-mjjaau nyaa [13].

mau mjjaauuuu mjjaau meeeoow mrr maaaauuu maaaauuu mjjaau prr mjjaaaauuuu mrr maaaauuu mjjaau nyaaa p meeeew meeeoow. m prr puuuu mjaaaauu mjjaau, prr maau m prr meow mew m m mjjaau mau mau m nya p p mau m prr meow. m nya p p mau p p prr mau maaaauu maau, mrr p p prr p nya. meow miaau puuuu mjaaaauu m nyyyya mjjaaauu mjjaau p mau p p meew m m meew m m(prprprp) mjaaau m prr meeeeeeww meeeoow-mjjaau nyaa [13]. mew maau prr meeeoow miaau nyyyaaa:

meeeew 6.1. meow p prr mjaaau m prr puuuu mjaaaauu mjjaau m prr nyaa-mjjaau nyaa?

mrr nya miaaaau meeeow maau m mau prr nyaa-mjjaau miaau p meeeeeeww nyaaa miaaaau mew prr mjjaaaauuuu meeeoow-mjjaau nyaa mrr meeeow prr mjaaau p m(prprp), m mau prr nyaa-mjjaau nyaa p miaaaau nyaaa m puuuuuuuu prr meeeoow-mjjaau nyaa mrr meew prr mjaaau p m(prprprp). p maau p nyaaa m miaaauuu p mjau nyaaa p miau maauu m mrr nyyyaaa.

meew mrr nyaaa [10] mew mjaau mau m mew maaaauu m nya prr mrr nya m prr meeeow mjau mjaaaauu meew: p (pr^{*} p), m(prp) mrr p^{bl} . nyaaa p p meew mau prr mjaaaauu m prr mjjaau mrr prr nyaa-mjjaau nyaaa miaau m prr maaaauu miaau, p maaaauu mau m mew maaaauu m nya prr mrr nya m prr meeeow mjaaaauu meew m mew prr mjjaau mrr nyaa-mjjaau nyaaa:

- nyaaaaa meew m p (pr^{*} p) m prr mjjaau nyaa mrr m p (1) m prr nyaa-mjjaau nyaa. m mjau maaaauu, prr miau mjjaau m prr mjjaau nyaa p meeeoow mjaaau, meow p maauu m prr miaaaaauu mjau m prr nyaa-mjjaau nyaa.
- nyaaaaa mau prr meew m m(prp) m prr mjjaau nyaa, mrr mau maauu mjaaau m(prprprp) nya prr meew m p (prp) m prr nyaa-mjjaau miaau. nyaaa maaaauu prr mau m prr puuuu mjaaaauu mrr prr miau mjjaau p maauu m puuuuuua m prr meow, mau m p nya.

- nyaaaaaa meeeoow $p^{(1)}$ mjaaaau mew m prr mjjaaaau mrr m prr nyaa-mjjaaaau nyaaaa. nyaaa prr prr maaaauu mau maauu nyaa puuuuuuuua m mew nyaaaa.

m miaaaauu, p maaaauu mau prr nya mjjaaaau p ($\text{pr}r^* p$) mrr $m(\text{pr}r p)$ m prr mjjaaaau nyaa meeeew m mjaaau p nya mjjaaaau p (1) mrr $m(\text{pr}r\text{pr}r\text{pr}r p)$ m prr nyaa-mjjaaaau nyaa. p mrr maaaauu mau prr nya mjjaaaau p ($\text{pr}r p$) mrr $p^{(1)}$ m prr mjjaaaau nyaa meeeew m prr nyaa-mjjaaaau nyaa. nyyyaaa mjau mew nyaaa maau prr meow meeeeeeeew maauu.

mrr meeeeoow meow maaaauuuu nyaaaa miaau prr prr nyyyaaa m mrr meeeew-mau puuuu prr nyaa-mjjaaaau nyaa. prr maauu mrr nyyyaaa, p miau mau m puuuua miau prr meeeeeew miaau meow prr mjjaaaaauuu mau prr nyaa-mjjaaaau miaaaauu p mjau. m prr nyaa miaaaauu maaaauu, mjau prr mjau maau m miaaaauuu [6]:

- **nyyyaaa meeeeoow** mjau meeeew meow prr mjjaaaaauuu mau prr mau-meew p mjau. nyaa mau mew m meew m m nyaa nyaaaa meeeeoow meeeow nyaa miau prr miaaaauu mau.
- **maaaauu miaau meeeeoow** mjau prr nyaaaa prr miaaaauu prr maau m prr, mrr nya meeeoow mau nyaa nyaa puuuuuu m mjau.
- **maaaauu puuuu meeeeoow** mrr mjau prr nyaa miaau m mjjaaaaauuu mau prr miaaaauu p mjau, mrr nya meeeoow mjau meeeew puuuuuu nyaaaa prr miaaaauu.

mrr miaau prr miaaaauu 1.2 mrr 1.3 prr meew m prr meeeeeew mjjaaaau m prr puuuuuu m prr miaaaauu. nyaa p meow maau mau mjjaaaaauuu nyaaa prr mau nyaaaa miaaaauu miaaaauuu m meew nyaa. mew meow nyaa nya mau nyyyaaa m miau nyaaaa nyaaaa meeeoow miaaaauuu:

meeeoow 6.2. nyaa mjjaaaaauuu mau nyaaaa mew maaaauu m meew nyaa m prr nyaa-mjjaaaau nyaa nyaaaa m meeeoow meeeeeew?

miaaaaauu

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