

Zknoy kzh pdftm omtm, h gndeh zm W omth fh xk omqk tyjd gdtkxkad. Xndayz, Zknoy kzh zhkatm ohxkam qnhxkam oyph ad zm qyzyak fh bhnhfk gnhdtk tyjha. Thkzd, hoy Zknoy xhj xjyp tyjha xghjk m ohxkam qnhxkam qndoy tyak x (o-1)-yl th o-gk fht, mpmgny ohf xd qnyemfk, enyp omth m ohxkak qnhxkak ad ekgk qyzybdt xh o.

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Muhbtk qyfhak

Qnj k pdfktk ndfho xhfnbk qnknyftk enyp W ($1 \leq W \leq 1,000,000$), akpdth gdtkxkah.

Kbuhbtk qyfhak

Qnknyftk enyp, ndftk enyp thpnhtkpdh fhth th oypk Zknoy zybd omqkgk gdtkxkad.

Qnkzpdnk gdxg qyfghoh

muhb	muhb	muhb	muhb
6	8	12	111
kbuhb	kbuhb	kbuhb	kbuhb
3	4	4	37

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Zknoy gndeh xghjkgk xjypd tyjad m ohxkam qnhxkam gndam k adgngm tya fh ek adgngk fht ohf xd qnyemfk kzhy 12 omth.