



[Z]`ejx~ztlhbb` ^\|Z[\^dqz\square zsnhdaa` ^\|Z[\\_dqx\square yrmeda` ^\|[[ jry\square }xukfdb^\^A]  
[ZZ[\^dkqyxnjhdb` ^\|ZYY\^dkqyynigdb``^\|ZYY fmrrroihiba` \|ZY[\^elz\square xrnhdba` ^\|  
\\ZY\ er{\square wrmhcb` ^\|]  
[ZZ[\^ds\square wsnhdba` ^\|Z[\\_jry\square xrhfdbaa ^\|ZYZ\ek{wlgbfa``^\|ZYYZdkt{\square vlgccb` a`\Z[Z^\  
dlt\plgebaa\JZZZ] fl{\square vrljcb` ]][ZZ`\et{tpkhcba` ^\|Z[\\_dt{\square uqmfcaa``^\|Z\| mu]  
ztpifccaa` YXX[gov]  
zukgecaa` JZYX[gow~ytjiddaa` ZZYYahpwzoygebaa` ]ZYY]biq~rokfb` a`^]  
[X]cix~tmjfd` aa^\|Z[\^cijy\square ysoidbb` ^\|]YYYY\^dsz\square xrngcba`  
\\XYY\^ksz\square ysfdbba` ^\|ZXY[\^ls{\vshgbb` ^\^A\^YYYZemtzwmhgdb``^\|ZXY\^elt~qmieaa`  
^\|ZXZ\^em}\square rkhgeca` \^YYXZ\_fn}vplhcaa` \_|[YX[\^gv}}wpmfca` ]|[XZ[\^nv}~xghedba` ^\|  
[XX\`ov}}wqgfeb` \|WX\`gow` }ulgfea` \_|YWWY\gnw\|pkhfa` ^\|YYW\`ho~`  
qljfc` a\YWX\`bhp~tqljebaajYXY\`aiy\square ytolgdba`  
[ZYY\apx\square xsojffdb^\^A\YXX\`qw\square xrpkgddaa` ^\|ZYY\jqx-\square xrkifdb` a^\|YXY\`cjrzmjhecb  
a\|ZYY\eks~wmj\hdbbb\YYY\^dkt\rmjhdaaa^\|YYZ\clzuplhdcbba^\|YYZ\`fw|\  
vpleca` a^\|ZZX\`fv{\snkgdbb\\_|[XY\lapw}  
{vqiebb` ]]ZXY\ipx~{tkhdc` ^\|ZYYbirxzvkgdb` \|ZXY\`cjryznkge` a` \|Z\`bkr\`rm  
ifba` \|ZW[\ em{\zrnieba` \|ZY[\^el{\vqkhcb` \|Z\`fu-\square vrmfba` ^\|XY\`bpw}\  
~vqhfca` ^\|YYZ\`ipx}wphdb` ^\|Y[\^jrz-\{tlhe` \|]ZYYZejrz\{nigd` \|]WY\`ektunjha` ^\|  
[Y\^Z\^dtsniga` ^\^A\|ZY[\^fn\|xtnha` ^\^A][XZ[afw]\square xrngca` ^\|]Z\`nu|\square vqmf\` ^\|Z\`aoe\}}  
upgfb` ^\^A\|YYZ\`gow-\|ukgea` \|]ZYYahow\{ojgda` ``\|]ZYY\`bhq\{nied` ^\|]  
[Y\^Z\^cjq\`rmie` ^\^A\|Z[\^cjj\square zrnheca` ^\^A\|Z[\^dry\`ysnhb` ^\^A\|]dsz\square ysmdb` ^\^A\|]  
^\|ksyxrhdc` ^\^A\|[\^dlszy\`fc\` ^\|Z\`elszzmieb` ^\^A\|Z\`dls\square rlid` \|]  
[Z\`elzxp\`lb` \|]Z\`et{\xrlhba` \|]Z\`et\|wpkca` ^\^A\|]nu-\|wqidb` ^\^A\|Z\`fmu\|  
vmfda` ^\^A\|Z[\^emu\square wlgcb` ^\^A\|Z[\^gnu\`rkhea` \|]|\`fm\|wplgb` ^\^A\|Z\`afu  
wrlhb` ^\^A\|Z\`et{\wokeba` ``\]  
|Y\`ltz\square wpgeba` ^\^A\|Z\`dlsz\square ymhec` ``\|Z[\^dkrzwlgeb` `a`]  
[Z[\^elspkgdaaaa` ^\|Z\`djz\square yqlgcbaa``^\|Z[\^dqv\square xqlhcaaaa`  
[L\`cqy\square xqleebaa` ``\|L\`hpw\`yriddaa` aa` \|L\`bhov\{mhca` ``\|L\`chov\{mgdb` ``\|  
\\ bhn\{snie` ``\|ba` ``\|bgz\square unjba` ``\]  
^\|bmtz\square upkc` ``\|bba` \|]`alrx~\|wpfca` aaba` \|]`fkqxxkfda` ``\|bb` ``\|adj\}  
rlhdaabbb` ``\^cho{\rlgebaacba` ``\|chs{\rmhc` aabab` \|]`bmsz\{uofdbbcccba` \|]`elry\|  
tnfcbbccc` ``\^ekqw~wkhdcbcc` \|]`ejp\|qkifcddca` \|]`chv\|  
zslhcccdccb` \|]`dhtzzsnjedddccb` \|]`bmry\{tngdddeddc` ``\|fkrx\}  
ukgedededa` ``\|bfkq` \|v\`kheededea` ``\|`dho\|  
okgedddea` ``\^cht{\xalhdededeba` ``\|clsy\square yqlfeddedcb` ``\|ckqx\`snfeddeedc` ``\|eipv\}  
ujhfdeefffc` ``\^chn\{okhfeffffdea` ``\|chtzq\`hgffeda` ``\|bfqx\`zrmjgffgfd\` ``\|aipw\}  
ztnifgfffd` ``\^dirov\|vligfgfge` ``\^chnt\|  
umjihhfffca` ``\|bgnz\square rljhfgggfdb` ``\|bfry\`wqnkgggggfd\` ``\|bkqx\`yqnkgggggfd\` ``\|aip  
v\`ysnhffggggfb` ``\|ejou\|  
tkhgfghhhgdb` ``\^dhmz\`~pkhgfhihfc` ``\|bgmy\square plhhghgigeca` ``\|bfqx\`xqlefghhhfc` ``\|bfp  
w\`xrmhfghhhfb` ``\|eiouzsmgffghhgca` ``\|eimt\|sjgffghi\` ``\|dhny\}  
nkhffhhgfb` ``\^bf\`fsx\square vpligfgghhfc` ``\|bfqx\`vqlifffghigd\` ``\|akpw\|  
wrmhefghhhgca` ``\|eouxsjgfgghiideca` ``\|einzy\`jhgghiieca` ``\|dhmy\|  
nkhfghiihfd\` ``\|dgsy\square uokhfgggghfc` ``\|bmsy\`~\|v\`lifggghgfd\` ``\|blqw\}  
wqlgffgi\`hfa` ``\|flwxqjhggghgdb` ``\|bejp\|zmkggfgghecb` ``\|bfjv\|f\`pkihgf\`gfd\` ``\|bejw\|  
uokjgffggfd\` ``\|adpv\|uolfgfffec` ``\|ajpw\`{tpnhgfffed` ``\^a\`jov\|uoijggfgfgea` ``\|eipw\}

vmjhfffffb` ^adjpl

zuogedccb` ajpu{yskigedddca``aejpv~ynigddcdcca` gmsyymihecbcba``bfmt  
~qmigdcbb` cip~vrnhccbba`a^`flx{uomifccab ^ bemx]trjgbc``] civy}}  
uqhgbba^ ^aent}yukhed`^`^` bfrwz]yqhfे\_`  
[~`bnu{~xmiec `^`^` houz~slhfa` ^`^` ekqx]`{plfd ^`]}]`^`gnszsnjgb` ^`  
]ciovxpngc`a^`][`ckq~lypnec\_`^`Z`bemt]`{upjda` \_`[Z`^`bgo{`^`roee`^`^`[`^`div`^`wtkfb`]  
[`^`fsz~wpfdb`\_`[`^`etzyvkicb]`\_`[Z`^`aou~`zpjed`\_`[YZ`\_`jsy~`uljgb`^`YYZ`emsz]`pmfe^`  
[Z`^`inu{tphha`^`ZZX`bipwyqnjd`\_`[YYZ`eks]`uskh`\_`[ZZZ`fnt{vnmc`^`ZYX`ago`  
vqmga` [YYY`\_`ckx~~xrgba`^`YZY`\_`ery]`upfd`\_`[ZZ`[`\_esz]`ztjda`^`[YYY`lanv]  
xngea`^`[Z`^`hov`vjhc`][`^`ZZY`\_`hpx]`pkfc`^`[YYZ`cjqx]`upjf`^`[`^`ZZ`[`\_djq`\_`  
tnib`^`[Z`^`dky`toia`^`[Z`^`YZ`\_`el`zrmc`][`^`ZZ`[`\_es`yshda`^`][`^`ZZ`[`\_ls{`~wpfda`\_`[`^`ZZ`[`amu`}  
wlgda`^`[Z`^`Y`gnu]`glfd`\_`[`^`Z`^`gltvqjg`^`^`][`^`bfm`wplgc`\_`][`^`el`upjd`^`\_`]  
Naft{`xqeb`^`\_`][`^`alsz`vogca`^`^`^`ajry]`ujec`^`^`^`ejqx}qjgd`^`\_`  
`^`djq`unjfb`^`\_`djh`ujfaa`^`^`^`civ`}  
vrkecbaba`\_`bmt{`uohdcbbaa`}`^`gnu`[`^`wrhfbcbcaa`]  
`^`fmsy`vkhedcccc`^`aejq`rhebbbbba`^`aeqx`zrmidbccccb`]]`dqw`  
{`rmhcbabdcba`^`eouz`  
unedecedea`^`^`gmty`vifcebeddb`^`bfkq`xkgdbbcccb`\_`bfjq`smhebbcddb`^`bdit`  
tmicbbddcb`\_`aensz`vofcbacddc`\_`glrx`\_`xpgedcddeda`^`fjov`xkhedbddd`ba`beio{s  
mifdccddcaa`adhsy`rnjgedeefecb`acgqx}{`uojeeddffed`^`dkpv`  
xrhfddeffeb`\_`eiou`zhnfeeefeca`behms`-`n`jgdeeffecb`adhlx`xpkhddefed`abeov`  
yqmfedeffedaacjotz{`smfeeee`fed`babcjnsx`ukhfeeee`fd`bb`bd`gl`q]{`  
pkgeddeeffed`cbc`fju`{`yslieed`deee`cb`ceisz`unjedeeff`fd`bb`celrx`  
`vogdd`def`fd`cc`chl`q`w`k`ge`de`egg`fd`cc`eg`ko`z`migd`def`g`ff`d`cd`gi`mx`  
tej`deeff`gg`fe`de`h`q`x`q`le`de`eff`gg`f`cc`ed`k`pu`{`y`ri`fe`ee`f`gg`e`d`c`b`c`int`{`t`j`fe`de`eff`g`f`dd`c`eh`l`q`  
-`pj`hee`eff`g`f`ed`d`e`dg`k`v`x`rl`ie`ee`hh`ge`cc`d`f`nt`z`snj`fe`ff`gg`ge`c`b`e`n`sy`  
`v`o`ge`ee`f`gg`f`d`e`cd`h`l`q`w`kh`fe`eff`gg`f`e`d`c`e`h`l`p`{`tm`ife`e`ff`h`g`ge`d`e`h`k`ox`-`tn`j`fe`d`e`gh`g`ge`d`d`f`hr`w`  
`-`w`q`le`dd`g`h`h`g`d`c`c`d`j`ou`{`y`ri`fe`eff`gh`f`d`c`b`f`j`ot`u`j`ge`d`eff`g`f`e`d`d`f`im`r`-`pk`h`fe`eff`g`f`f`e`d`c`e`h`l`v`  
yrl`h`de`eff`f`e`d`d`f`g`ot`z`{`t`n`g`e`d`eff`g`f`e`d`d`e`g`d`e`n`s`x`-`wo`ge`d`ff`gg`f`d`d`d`i`l`r`w`z`l`h`e`e`d`e`f`g`f`e`c`e`h`l`  
p`{`sn`i`f`de`ff`g`f`e`d`c`e`g`j`t`z`u`ok`h`ee`eff`gg`f`e`d`d`g`i`r`x`-`x`q`l`fe`ee`g`h`g`ge`d`e`f`l`p`{`x`r`i`g`e`e`f`g`g`e`d`c`c`g`j`nt`{`  
kh`fe`ff`g`f`d`c`c`f`i`m`r`~`p`l`i`g`f`f`f`g`f`e`d`d`e`i`l`w`w`q`l`ie`ee`f`f`e`c`c`d`h`p`v`|`s`n`f`e`d`e`f`f`f`e`c`b`d`j`ot`z`  
vo`h`fe`ff`g`f`d`c`b`c`i`m`s`x`l`h`fe`ee`f`g`f`d`c`c`e`h`l`q`sm`i`f`d`f`e`d`g`d`b`d`g`k`v`|`s`n`j`f`d`d`e`e`f`e`c`d`d`g`j`t`z`  
t`n`k`e`d`d`e`f`g`f`c`c`e`g`m`r`x`}  
vog`fe`ee`g`f`e`d`c`c`c`h`l`q`v`k`i`g`f`e`f`f`f`e`c`b`d`f`k`p`{`x`l`i`f`e`f`f`f`f`e`d`b`d`f`i`o`z`sn`k`h`f`e`f`f`f`e`e`b`c`e`i`sy`{`s`m`j`f`e`f`g`  
g`g`e`b`b`c`e`m`s`x`z`sn`h`g`f`e`f`f`f`e`c`c`d`l`r`x`{`u`o`i`f`f`f`g`f`g`f`c`c`b`f`l`q`v`l`h`f`e`g`g`g`e`c`b`b`h`e`l`q`}  
p`k`i`h`f`f`f`g`f`e`d`b`a`c`f`j`v`{`p`m`i`g`e`e`f`f`e`e`c`b`f`j`u`z`x`q`m`i`f`f`f`g`f`e`c`a`a`b`e`p`u`z`-`x`r`m`g`g`f`g`g`g`e`b`a`a`b`i`n`t`y`y`r`h`g`e`  
f`f`f`e`e`b`a`b`h`n`h`y`y`r`i`g`f`e`f`f`d`b`a`a`d`g`m`s`y`n`k`j`f`e`g`g`e`c`b`a`a`d`h`l`y`{`s`n`k`h`e`f`f`e`d`b`a`b`d`h`s`x`}  
s`n`j`i`f`e`e`g`f`e`d`b`a`c`g`sy`{`t`o`l`h`e`f`f`g`f`e`d`a`a`b`m`r`y`{`v`p`j`g`g`f`e`f`e`b`a`^`f`m`sy`{`t`k`i`h`f`f`f`e`e`a`a`^`g`l`s`x`|  
u`m`j`h`f`f`e`f`c`^`c`g`l`s`{`r`l`j`f`e`f`e`d`c`^`c`g`m`x`v`p`m`i`g`f`f`e`c`b`^`d`g`t`z`u`q`l`f`f`e`e`d`b`a`^`c`g`r`y`}  
u`p`m`j`g`f`e`d`b`a`c`m`sy`{`v`p`i`h`h`e`e`e`f`c`a`^`g`m`ty`{`u`l`i`f`f`f`d`c`^`a`g`n`t`z`v`l`h`g`g`f`e`f`b`a`^`c`i`n`u`}  
p`k`h`g`e`d`e`g`c`b`^`d`g`o`z`u`ok`g`e`d`e`e`d`c`^`b`h`u`{`t`n`k`h`e`d`e`e`e`c`c`^`d`j`v`{`z`s`o`j`f`d`d`e`e`d`c`a`^`a`e`q`w`l`  
{`f`r`o`g`h`e`d`d`d`b`b`^`a`k`r`x`z`s`j`g`f`e`e`d`e`b`^`a`k`r`y`  
x`t`j`h`e`d`c`c`b`^`h`n`t`z`x`p`h`h`e`e`b`c`c`a`^`c`i`n`u`-`x`r`m`k`g`d`b`c`b`a`^`a`d`i`q`{`r`n`h`h`c`b`a`d`b`a`^`f`k`r`|  
v`o`m`h`f`a`b`a`^`b`g`m`y`-`z`s`q`j`f`c`d`a`a`^`c`i`u`z`-`s`q`f`i`c`c`c`a`^`b`j`v`{`y`v`n`h`e`f`a`^`a`^`j`a`e`r`w`}  
y`sh`i`e`a`^`a`^`l`s`z`{`z`m`j`d`e`b`^`a`^`j`e`m`t`z`v`k`j`h`a`^`a`^`h`n`u`{`p`m`h`f`a`a`^`a`^`b`h`o`u`w`q`j`j`d`a`^`a`^`}  
a`^`d`i`p`{`t`p`l`f`a`b`^`a`^`d`j`q`{`s`p`k`f`b`b`a`^`a`^`c`k`x`-`x`t`n`h`d`d`^`a`^`a`^`a`^`e`t`z`{`y`j`e`a`^`a`^`z`[`^`n`t`l`]}  
|

zrjee` ^ [ \\_ aot{ } **vlkfb** ` ^ ] Z [ [ hpw } ~ qlfhab] ^ \ [ cipw **wolid** `` ] [ \ [ cjsx **tpjkb** ^ \ ] Z | **ekr** ~ yrmldc` a ^ [ \ aemz ~ uukhbe` \_ \ ] [ \ [ gt{ } **wpngdac** \_ ] [ \ [ agu{ yvrjedc` ^ ] \ ] ^ bnv { slhgba` \_ \ [ \ jpw } ~ yomiebaa^ ] [ \ [ iqw } **yqiidd** ` a ^ Z [ \ dkry } **rnlgdba** \_ Z [ Z \_ dmt[ trlicdb` ^ ] \ ] elz ~ **wpniebb** ` \_ \ [ Z ] fm{ [ \ zvqlfec` ^ ^ ] Z ] bgu{ [ \ tpigcb` \_ ] Z ] bnw| zukiec` ^ ^ ] ] \ ] anv | xtjhecaa` \_ \ ] ^ ipw ~ xnigdbba\_ ^ ] ] cipw [ \ rmihccaa^ ] ] ^ bio } ~ rnihccba^ ] ^ dip ~ wqmjecbb\_ ^ ] [ \ [ cyj~ } uqngdbca\_ ^ ] ^ cpy ~ vqhedbba` \_ \ ] dqx [ \ ~ vogedbba \_ \ ] ipx ~ } **vigccacba** ^ ] ^ dipw [ \ pijkebaa` ^ ] ciol} ojfebbda` ^ \_ bho [ \ unkgdbeb` \_ ] bhul ~ upjeccbeba` ^ \_ amt } wpheddbbbb` ] \_ blsz [ \ vphfdcccbb\_ ] ^ ejqy ymhgcbbdba\_ ^ ] djq ~ **rmifccccca** ` ^ div [ \ snifcddecb` ^ ] chu{ [ \ nkffeedba ] ^ bmsz [ \ ] **t0hfdefedd** ^ \_ glr ~ **vkhfeffffda** \_ ^ **fkqwxlhfeefffc** ^ **achmz** **smjgfefffdb** ` chry [ \ tnkgfggged` \_ ckqw ~ [ \ upkfeefgffd` ^ ^ ajov { xqigfefggfba` dhnt { njhffggfdcaacgkw } uojgdeghhgecaacgjv } **wqkiffghhgf** abemsy [ \ **ztnhfgghhhgdbabgkpw** ~ wlhgfhhifdbadgjp { **yligfghiagedabe** i mx ~ tnjhggiiigfcbbehpv } ~ vokggghiihgcbbdimrx xsjhghijijhecabglpv { ujiggijjkgfdccgjn z ~ plihhijikhfdbeirx ~ **ztokihijk** kigdbbdjou { ~ wqlijikkjheccccimsyyrkiiikkjgfdceimq } { plijikkjigdcdgjsz ysnkijikkjhebcehw } **uo** liiikkjhddeelpu { ~ wqjhikllkheddgjns { nkijikkjhfdeegku } **plijikkjigeddfisy** [ \ { toljikkjhdcedlqv } wrjiiiiikgedegkotyskjijkkkgfdceimr } qmkjkkjhgecehku { ztoljikkjigddegosy ~ ztojikkifddeimqw } **xrijhikkjgeddgjns** [ \ { plijikkjhfeegimv } vqmkijkkjigedehtz { uolijikkjiheddfmr } vqkijikkjgeddhlpv [ \ xnljikkjihfdehkey ~ vqmkjkkjhfdegnv { xrnkijkkjihfghoty [ \ { uo } jjijkkjfeeeknrw } vnljikkjigefhkpzxnkjikkjifeegjm } vqmljkkjhgddfiqv } **xro** jjikkjifdcejoszzumkjjkkjgfedejnrw ~ wnkjjkkjigedehtkozsolijjjkkjhggefgrx ~ ztoljjklkjheddfqv [ \ vqnjjjjlkieddejnsz ~ xrlkkkkgedcfins ~ yolkjllljifedfhkv } **tom** kkklllkigedegkty [ \ wqnkjkkjigedfmsx } xsokjkkllkjfdbchlvzslkjkkllkhfecdfjz [ \ { tmkjkkllkhfecdehmy } qnlijkkkifdacehw } **ysol** jjikkjihbabdkpv { ztojikklljhccbeiouz } **up** kijikkjfdbbdinu [ \ ~ vnkjikkhedbbdhx ~ **rnkjijjkjigeabdfpv** } sekijjjigebbcfov { zokhhiiikjhcaabintz [ \ upjijjjiebaadgnt [ \ ~ wmkjijjkjeda` cglr } ~ wnljijjkjgebacgkv [ \ rnkjijjkjhfdbcep [ \ { uplijijkjhb } ^ bjev [ \ uplihijkjfb` aiouz } vpkhiikjjielb` dhnt [ \ wmkjhiijkjhebabchmy ~ rnkjihhijjhfc` cglw } rnkjihhijjhfc` acfpw } ysnkghijjhqaaacpv { toighhijihecaakpv [ \ tnhhhiiihdbaaehot } ulihghijjhccbbdhny ~ pmiihiiiigecbbdity ~ vpmjihhiihgebabeisx } vqmljhihiige` aadmsy } wqmihhijjhbb` agnsy vpkjhhiiihecaadims ~ wpjhgiijiebaacgms } xlkaggihifed` bdiny [ \ qnjjhhhjggdcabdhxs } xqlikggghhffccbditx [ \ xrnkggfghifebabeosy } **xsmi** ghfghigebbbjntx [ \ wsjheggghhedcbdins [ \ yrkhggghgedaadhns } wmiioffhhgedbbdiez } rljhggghgedcabdisx [ \ yrljffffhifecaadhsx [ \ **xrmieggfgfc` abdoty** ] zqmggeffhfebaabhnsx [ \ wsjiefegffdbabejou } zrkhgfeatgdba` dhot } ymkgffggfdcabdjoz } tmjhffeffeb` bejuz ~ zrnkgeffffcaabejuz ~ **yslkegegefcaacepu** { ~ yrnhfefeeeaa` ajpvzys } gefffdeaa aekpu ~ zsjhfeddeeba aejpu ~ xmjhheeedcba` bejp } **smkheddecb` aejw** [ \ xsnkfeeeeeca` bdjv [ \ yrmkggfeeeeb` beqwl } ysnjefehhee` ^ akqy }

zrkhhefffd<sup>b</sup>ejqwzsijfegde`adkqw<sup>y</sup>nkjhfffeba``adkp{qmjfeefdbbekw|  
ysmjeedeedca`adju{zqnifdffgecb\_`aeqv|ysngddeddeebjqv|  
zsjheeeeeda``dipuzsjhdeddeeb`aaehouznjgfeeeeadhn{tokifeeeecba`ahu  
z{tokgeddeedc``cguz|upkgggeeddb`\_`cmty~{upiffeeda\_`^gmsz}  
vmigeeeeeda`\_agms~vmjhfeeeeeca`bfq{qljgeeddcca``bfkw}  
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ms}{njheeeggecb`acglx|}  
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