ICPC Assiut University Community

Ahmed Essam Yassin | Logout

Newcomers Training , Do Your Best

HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

H. Simple Mod

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

Hady has a positive number N and a simple equation:

 $(X^2+Y^2) \operatorname{MOD} N=0$

Your task is to find any values for X,Y that satisfy the equation, such that X and Y are nonnegative integers.

Input

Only one integer N ($1 \leq N \leq 10^{100}$).

Output

If you can find any two non-negative integers such that $(X,Y\leq 10^9)$, print them. Otherwise, print "No solutions".

Examples

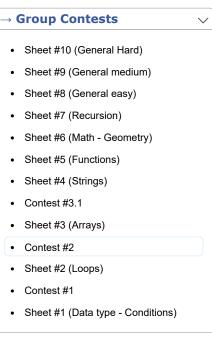
100000100

input	Сору
5	
output	Сору
4 3	
input	Сору

output	Сору
10 10000	
input	Сору
50	
output	Сору
5 5	

Assiut University Training Newcomers Public Participant





Contest #2	
Finished	