

HOME TOP CONTESTS GYM PROBLEMSET GROUPS RATING API HELP LYFT MAILRU CUP 🟋 CALENDAR

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PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS STANDINGS CUSTOM INVOCATION

C. Meme Problem

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

Try guessing the statement from this picture:



You are given a non-negative integer d. You have to find two non-negative real numbers a and b such that a + b = d and $a \cdot b = d$.

Input

The first line contains t ($1 \le t \le 10^3$) — the number of test cases.

Each test case contains one integer d ($0 \le d \le 10^3$).

Output

For each test print one line.

If there is an answer for the i-th test, print "Y", and then the numbers a and b.

If there is no answer for the *i*-th test, print "N".

Your answer will be considered correct if $|(a + b) - a \cdot b| \le 10^{-6}$ and $|(a+b)-d| \le 10^{-6}$.

Example

input	Сору
7 69 0 1 4 5	
999 1000	
output	Copy
Y 67.985071301 1.014928699 Y 0.000000000 0.000000000 N Y 2.000000000 2.000000000 Y 3.618033989 1.381966011 Y 997.99899690 1.001003010 Y 998.998997995 1.001002005	

Educational Codeforces Round 54 (Rated for Div. 2)

Finished

→ Practice?

Want to solve the contest problems after the official contest ends? Just register for practice and you will be able to submit solutions.

Register for practice

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest





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