

BUBT INTRA-UNIVERSITY PROGRAMMING CONTEST SPRING 2017 (DIVISION 1)

Finished

THE CONTEST HAS ENDED.

A. Intmeter

Score: 1

CPU: 2s

Memory: 512MB

Moni is a little girl but she is super genius. She has invented a device that will tell you if the given input is a positive or negative number. See diagram below:



INPUT

The first line of input contains a positive integer T ($T \leq 100$). Each test case contains a positive integer N ($-10^6 \leq N \leq 10^6$).

OUTPUT

For each test case, you will have to print if the number is **POSITIVE**, **NEGATIVE** or **ZERO**.

Sample

Input	Output
4	POSITIVE
5246	NEGATIVE
-68643	POSITIVE
9999	ZERO
0	

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