Probe

Introduction

Everyone can distinguish a positive number from a negative one. Is it that obvious for bettlejumpers? Let us try to explain it to them:

$$\text{signum}(x) = \begin{cases} 1 & \text{if } x > 0 \\ 0 & \text{if } x = 0 \\ -1 & \text{if } x < 0 \end{cases}$$

Problem

Calculate the signum function value for given numbers.

Input data

Test data are given in `probe*.in` files.

The only line in the input file contains an integer N ($-100 < N < 100$).

Output data

The only line in the output file should contain the value of signum(N), i.e., one of the following numbers: -1, 0 or 1.

Example

For the input data:

```
-34
```

The correct answer is:

```
-1
```

Score

If the answer is correct, then the score for a given set equals 1. Otherwise the score is 0.