

Exercise



SEASON 9 – SIXTH ROUND

Bobby decided to learn to be a professional number writer. On the first day of his adventure, he wrote ones. After that two days he wrote twos. Then three days - threes. And so on.

Make a program that given a number X calculates what did Bobby write on the X th day.

Input

Read X from the only line of the input file `exercise.in`

Output

In the output file `exercise.out` print the number that Bobby wrote on the X th day.

Constraints

$$1 \leq N \leq 3\,000\,000$$

Time limit: 0.1 seconds

Memory limit: 256 MB

Examples

Input (<code>exercise.in</code>)	Output (<code>exercise.out</code>)	Notes
9	4	Day 1 -> 1 Days 2 and 3 -> 2 Days 4, 5, 6 -> 3
11	5	Days 7, 8, 9, 10 -> 4 Days 11, 12, 13, 14, 15 -> 5