

Printf's Secret

Input file: **standard input**
Output file: **standard output**
Time limit: 1 second
Memory limit: 256 megabytes

You are given the following C program:

```
#include <stdio.h>
int main() {
    int n, b;
    scanf(n);
    b = printf(n) with a newline;
    printf(b) with a newline;
}
```

For a given integer N , determine what this program would output. The program contains several syntax errors and undefined behaviors - your task is to analyze how a real C compiler would process this code and what it would produce.

Input

The only line contains a single integer $N(0 \leq N \leq 10^9)$.

Output

Print the **exact output** of the program, line by line.

Example

standard input	standard output
1	1 2