

Lab work 1

PP1

week 1

A+B

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

You are given two integers a and b . Print $a + b$.

Input

The only line of the input contains integers a and b ($-100 \leq a, b \leq 100$).

Output

Print $a + b$.

Examples

standard input	standard output
7 8	15
-100 100	0
-7 -99	-106

Note

In the first example, $a = 7$ and $b = 8$. Thus, the answer is $a + b = 7 + 8 = 15$.

Code

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

Almat is the KBTU student. Recently he managed to get to the ACM finals, but in order to be registered at the finals he needs a secret code which consists of only digits. Code is constructed from two numbers n and m . The first number - age of the contestant. The second number - sum of the first and the last digits of the 3-digit random number k given by administration of the finals. Help Almat to construct the code.

Input

The first line contains non-negative number n ($1 \leq n \leq 1000$) - age of the contestant. The second line contains non-negative number k ($100 \leq k \leq 1000$) — random number.

Output

Calculate the sum of the numbers n and m .

Examples

standard input	standard output
18 123	22
17 391	21
0 100	1
505 100	506
1000 999	1018

Input file: `standard input`
Output file: `standard output`
Time limit: `2 seconds`
Memory limit: `64 megabytes`

You are given integer number N , guaranteed that the number has exactly 4 bits in binary representation. reverse the number in binary representation and print out it.

Input

One integer number N

Output

Reversed number

Examples

standard input	standard output
12	3
11	13
13	11
9	9
10	5

Note

reverse example: 12 in binary representation is 1100, 0011 is reversed number, it means you should output 3.

Value of bit

Input file: **standard input**
Output file: **standard output**
Time limit: 2 seconds
Memory limit: 64 megabytes

Input

Given integer number n and i .

Output

Output value of i – th bit of the number n , that is 0 or 1.

Examples

standard input	standard output
179 0	1
4242 13	0
3086 28	0
9226 19	0
8071 2	1
2910 11	1

Input file: **standard input**
Output file: **standard output**
Time limit: **2 seconds**
Memory limit: **64 megabytes**

You are given integer number. Print out its square root value.

Input

One integer number.

Output

One double number.

Examples

standard input	standard output
10	3.1622776602
20	4.4721359550
9	3.0000000000
82499	287.2263915451
9752	98.7522151650
78985	281.0427013818