Lab work 1

PP1

week 1

37267. A+B

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

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

Input

The only line of the input contains integers a and b ($-10000 \le a, b \le 10000$).

Output

Print $a + b$.

Examples

standard input	standard output
1 2	3
15 14	29
894 197	1091
8581 6058	14639
289 21	310

51191. Root

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

51445. 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

51447. Bits

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.

71697. 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 ($1 \leqslant n \leqslant 1\,000$) - age of the contestant. The second line contains non-negative number k ($100 \leqslant k \leqslant 1\,000$) — 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