

## Introduction to C++

### A. Hello World

1 second, 256 megabytes

Your task is to print the string `Hello World`.

#### Input

There is no input for this problem.

#### Output

Print exactly:

`Hello World`

#### output

A  
B  
C  
D  
E

### B. Print First 5 Alphabets

1 second, 256 megabytes

Your task is to print the first five letters of the English alphabet.

#### Input

There is no input for this problem.

#### Output

Print the first five uppercase English letters, one per line.

#### input

`There is no input.`

#### output

\*\*\*\*\*  
\*\*\*\*  
\*\*\*  
\*\*  
\*

### C. Triangle

1 second, 256 megabytes

Your task is to print a right-angled triangle pattern using asterisks (\*).

#### Input

There is no input for this problem.

#### Output

Print the following pattern exactly as shown:

\*\*\*\*\*  
\*\*\*\*  
\*\*\*  
\*\*  
\*

## D. Print Z

1 second, 256 megabytes

Your task is to print the letter Z using asterisks (\*) as shown below.

### Input

There is no input for this problem.

### Output

Print the following pattern exactly as shown:

```
*****
 *
 *
 *
*****
```

input
There is no input.
output
<pre>*****  *  *  * *****</pre>

## E. Print Table of 5

1 second, 256 megabytes

Your task is to print the multiplication table of the 5.

### Input

There is no input for this problem.

### Output

Print the table of 5 in the format as shown in the example.

input
There is no input.
output
<pre>5 * 1 = 5 5 * 2 = 10 5 * 3 = 15 5 * 4 = 20 5 * 5 = 25 5 * 6 = 30 5 * 7 = 35 5 * 8 = 40 5 * 9 = 45 5 * 10 = 50</pre>

## F. Rectangle

1 second, 256 megabytes

You are given the length and breadth of a rectangle. Your task is to calculate its area and perimeter.

The formulas are:

- $\text{Area} = \text{length} \times \text{breadth}$
- $\text{Perimeter} = 2 \times (\text{length} + \text{breadth})$

### Input

A single line containing two integers `length` and `breadth` ( $1 \leq \text{length}, \text{breadth} \leq 1000$ ).

### Output

You are given the length and breadth of a rectangle. Your task is to calculate its area and perimeter.

The formulas are:

- $\text{Area} = \text{length} \times \text{breadth}$
- $\text{Perimeter} = 2 \times (\text{length} + \text{breadth})$

You are given two integers  $N$  and  $M$ . Your task is to compute and print the results of the following operations:

- $N + M$
- $N - M$
- $N \times M$
- $N \div M$  (integer division)
- $N \bmod M$

### Input

A single line containing two integers  $N$  and  $M$  ( $1 \leq N, M \leq 1000$ ).

### Output

Print five lines in the format as shown in the example.

input
6 4
output
6 + 4 = 10
6 - 4 = 2
6 * 4 = 24
6 / 4 = 1
6 % 4 = 2

## H2. Calculator - II

1 second, 256 megabytes

You are given two integers  $N$  and  $M$ . Your task is to compute and print the results of the following operations:

- $N + M$
- $N - M$
- $N \times M$
- $N \div M$  (integer division)
- $N \bmod M$

### Input

input

5 7

output

Area = 35

Perimeter = 24

## G. Print Table of N

1 second, 256 megabytes

You are given an integer  $N$ . Your task is to print the multiplication table of  $N$  from 1 to 10.

### Input

A single integer  $N$  ( $1 \leq N \leq 100$ ).

### Output

Print the table of  $N$  in the format shown in the example below.

input

6

output

6 \* 1 = 6  
 6 \* 2 = 12  
 6 \* 3 = 18  
 6 \* 4 = 24  
 6 \* 5 = 30  
 6 \* 6 = 36  
 6 \* 7 = 42  
 6 \* 8 = 48  
 6 \* 9 = 54  
 6 \* 10 = 60

## H1. Calculator

1 second, 256 megabytes

Two integers  $N$  and  $M$ , each given on a separate line ( $1 \leq N, M \leq 10^9$ ).

### Output

Print five results in the following format as shown in the example.

input
1000000000 1000000000
output
1000000000 + 1000000000 = 2000000000
1000000000 - 1000000000 = 0
1000000000 * 1000000000 = 1000000000000000000
1000000000 / 1000000000 = 1
1000000000 % 1000000000 = 0

## I. Add Last Digits

1 second, 256 megabytes

You are given two integers  $N$  and  $M$ . Your task is to find the sum of the last digits of  $N$  and  $M$ .

### Input

A single line containing two integers  $N$  and  $M$  ( $1 \leq N, M \leq 1000$ ).

### Output

Print a single integer — the sum of the last digits of  $N$  and  $M$ .

input
169 125
output
14

## J. Even or Odd

1 second, 256 megabytes

You are given an integer  $N$ . Your task is to determine whether the number is even or odd.

### Input

A single integer  $N$  ( $1 \leq N \leq 10^9$ ).

### Output

- Even if  $N$  is even
- Odd if  $N$  is odd

input
20
output
Even

input
3
output
Odd

## K. Factor

1 second, 256 megabytes

You are given two integers  $N$  and  $F$ . Your task is to check whether  $F$  is a factor of  $N$ .

A number  $F$  is said to be a factor of  $N$  if  $N$  is divisible by  $F$ .

### Input

A single line containing two integers  $N$  and  $F$  ( $1 \leq N, F \leq 10^9$ ).

### Output

Print:

- Yes if  $F$  is a factor of  $N$
- No otherwise

<b>input</b>
36 6
<b>output</b>
Yes

## L. Multiple

1 second, 256 megabytes

You are given two integers  $N$  and  $M$ . Your task is to check whether  $M$  is a multiple of  $N$ .

A number  $M$  is said to be a multiple of  $N$  if  $M$  is divisible by  $N$ .

### Input

A single line containing two integers  $N$  and  $M$  ( $1 \leq N, M \leq 10^9$ ).

### Output

Print:

- Yes if  $M$  is a multiple of  $N$
- No otherwise

<b>input</b>
6 36
<b>output</b>
Yes

## M. Pass or Fail

1 second, 256 megabytes

Problems - Codeforces

You are given the marks obtained by a student. Your task is to check whether the student has passed or failed.

A student is considered to have passed if the marks obtained are at least 35.

### Input

A single integer `marks` ( $0 \leq \text{marks} \leq 100$ ).

### Output

Print:

- Pass if the student has passed
- Fail otherwise

<b>input</b>
36
<b>output</b>
Pass

<b>input</b>
20
<b>output</b>
Fail

## N. Max and Min of 2 Numbers

1 second, 256 megabytes

You are given two integers  $A$  and  $B$ . Your task is to find the minimum and maximum among them.

### Input

A single line containing two integers  $A$  and  $B$  ( $1 \leq A, B \leq 10^9$ ).

### Output

Print two lines:

## P. Student Performance Evaluation

1 second, 256 megabytes

You are given the marks obtained by a student. Based on the marks, display an appropriate performance message according to the following rules:

- If marks are greater than 90, print `Excellent`
- Else if marks are greater than 80 and less than or equal to 90, print `Good`
- Else if marks are greater than 70 and less than or equal to 80, print `Fair`
- Else if marks are greater than 60 and less than or equal to 70, print `Meets Expectations`
- Else (marks less than or equal to 60), print `Below Par`

### Input

A single integer `marks` ( $0 \leq \text{marks} \leq 100$ ).

### Output

Print a single line containing the performance message corresponding to the given marks.

input
85
output
Good

input
99
output
Excellent

## Q. Find the location point

- `Min` = `X`
- `Max` = `Y`

where `X` is the minimum value and `Y` is the maximum value.

input
12 9
output
Min = 9 Max = 12

## O. Max and Min of 3 Numbers

1 second, 256 megabytes

You are given three integers `A`, `B`, and `C`. Your task is to find the minimum and maximum among them.

### Input

A single line containing three integers `A`, `B`, and `C` ( $1 \leq A, B, C \leq 10^9$ ).

### Output

Print two lines:

- `Min` = `X`
- `Max` = `Y`

where `X` is the minimum value and `Y` is the maximum value.

input
12 9 15
output
Min = 9 Max = 15

1 second, 256 megabytes

You are given the coordinates of a point  $(X, Y)$  on a Cartesian plane. Your task is to determine the location of the point.

The possible locations are:

- Origin — if  $X = 0$  and  $Y = 0$
- X axis — if  $Y = 0$  and  $X \neq 0$
- Y axis — if  $X = 0$  and  $Y \neq 0$
- 1st Quadrant — if  $X > 0$  and  $Y > 0$
- 2nd Quadrant — if  $X < 0$  and  $Y > 0$
- 3rd Quadrant — if  $X < 0$  and  $Y < 0$
- 4th Quadrant — if  $X > 0$  and  $Y < 0$

### Input

A single line containing two integers  $X$  and  $Y$  ( $-10^9 \leq X, Y \leq 10^9$ ).

### Output

Print a single line indicating the location of the point.

**input**

1 10

**output**

1st Quadrant

**input**

0 0

**output**

Origin

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