

Evaluate binary expression

50 POINTS

Given a binary operation find out the result.

Input format:

A single line of input containing an integer followed by a character followed by another integer.

Output format:

A single line of output containing the result of the expression as follows:

- (i) if operator is +, -, or * then perform the operation and display the result
- (ii) if operator is % or / then check if the second operator is zero:
 - 1. if the second operator is zero then print “Division by zero error!”
 - 2. if the second operator is non-zero then display the result
- (iii) if the operator does not match any cases above then display “Invalid operand!”
- (iv) display the result up-to 6-digits after the decimal place

Constraints:

- (i) $INT_MIN \leq \text{bill, delivery-charges} \leq INT_MAX$
- (ii) input is such that if the operation can be performed then results will never overflow

Test Case - 1

1+2
3.000000

Test Case - 2

-1--2
1.000000

Test Case - 3

5/2
2.500000

Test Case - 3

5/0
Division by zero error!

NOTE:

- (i) use switch-case instead of if-else
- (ii) use only primary data types (do not use strings)

Problem tags:

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