Coding Assignment 0

Due: 3 October, 2025 6pm PT

About This Assignment

- The purpose of this assignment is to familiarize you with the autograder system on Grade-scope.
- This coding assignment is graded only on completion, but please make sure you learn how the autograder works.
- Information about the system can be found on the slides on Canvas (Files → Coding Assignments → Coding Assignment Instructions).
- This assignment includes two programming problem: Floor Division and Saying Hello.
- Please download the file CAO.zip from Canvas (Files → Coding Assignments). It contains all sample test cases for the two problem.
- Please submit your solution on Gradescope. Your solution will be evaluated on the sample test cases and a set of hidden test cases.

1 Floor Division

Problem Description

Please write a program that, given two integers a and b, prints $\lfloor a/b \rfloor$. In the case where b=0, your program should output "division by zero!!" instead.

Input

The only line of the input contains two integers a and b $(0 \le a, b \le 10^{18})$, separated by a space.

Output

If b = 0, output "division by zero!!" (without quotes) in a single line ending with a line break. Otherwise, output |a/b| in a single line.

Be sure to strictly adhere to the output format. Your output will be graded correct only if it matches our output file exactly, with no extra characters, no missing characters, and no trailing spaces and extra new lines. See the instruction slides on Canvas for details.

Test Cases

Your program will be evaluated on 6 sample test cases and 6 hidden test cases. The first three samples are given below. The other samples can be found in CAO/Floor Division/test_data/.

Sample Input 1:

Sample Output 1:

3

6 2

Sample Input 2:

1 5

Sample Output 2:

0

Sample Input 3:

1 0

Sample Output 3:

division by zero!!

Submission Guideline

Write your program in either C, C++ or Python in a single file. Name your file FloorDivision.ext where ext is c, cpp or py depending on your language. Submit the file on Gradescope. The time limit on Gradescope is 1 second for C/C++ and 3 seconds for Python. You can make at most 10 submission attempts.

2 Saying Hello

Problem Description

Shane is preparing for his first lecture at UC Davis. His plan for the lecture is quite simple: He will say hello to each student on the roster and then call it a day. Shane is very nervous about the lecture and therefore he wants you to prepare a script for him. Can you write a program that, given the roster, outputs the script for Shane?

Input

The input contains the names of Shane's students. Each name is a sequence of English letters. In particular, no name in the input contains any special characters such as hyphens (-) or white spaces. The names are separated by several white spaces and new line characters. The input contains at most 50 names, and each name contains at most 50 letters.

Output

For each name S in the input, output a line "Hello S!" (without quotes). The last line should also include a line break.

Examples

Your program will be evaluated on 6 sample test cases and 6 hidden test cases. The first two samples are given below. The other samples can be found in PAO/Saying Hello/test_data/.

Sample Input 1:

Ben Srikkanth Anna Additya Ben

Sample Output 1:

Hello	Ben!
Hello	Srikkanth!
Hello	Anna!
Hello	Additya!
Hello	Ben!

Sample Input 2:

Linda Tim		
Mcdonald		

Sample Output 2:

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Hello Linda!
Hello Tim!
Hello Mcdonald!
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Submission Guideline

Write your program in either C, C++ or Python in a single file. Name your file SayingHello.ext where ext is c, cpp or py depending on your language. Submit the file on Gradescope. The time limit on Gradescope is 1 second for C/C++ and 3 seconds for Python. You can make at most 10 submission attempts.