Programs

Mango tree II

Sara is interested so much in gardening and she plants more trees in her garden. She plants trees in a rectangular fashion with the order of rows and columns. She numbered the trees in column wise order and planted mango tree only in a 1st row, 1st column and last column. So given the tree number, write a program to find whether the given tree is a mango tree or not?

Input format:

Input consists of 3 integers

The first input denotes the number of rows

The second input denotes the number of columns

The third input denotes the tree number

Output format:

If the given number is a mango tree, print "Yes". Otherwise, print "No"

Refer the sample output for formatting

Sample Input:

5

5

15

Sample Output:

No

Input (stdin)

3

8

12

Output (stdout)

No

Input (stdin)

5

6

16

Output (stdout)

yes

2.Hotel Tariff Calculator

Write a program to calculate the hotel tariff. The room rent is 20% high during peak seasons [April-June, November-December]. Note: Use the switch construct.

Input format:

The first input containing an integer which denotes the number of the month

The second input containing the floating point number which denotes the room rent per day

The third input containing an integer which denotes the number of days stayed in the hotel

Output format:

Print the hotel tariff to be paid in floating point with 2 decimal places

Refer the sample output for formatting

Sample Input:

3

1500

2

Sample Output:

3000.00

Input (stdin)

15

2000

3

Output (stdout)

Invalid Input

Input (stdin)

12

6000

2

Output (stdout)

14400.00

3.Traffic Signal

We are driving down the street and see a green traffic light ahead. Because we know precisely the pattern of this traffic light, we know exactly how long we have before it will turn red. We wish to compute whether we will pass the traffic light before it turns red at our current speed. Write a program to check whether we will beat the light or not with the current speed.

Input format:

The first input containing the floating point number which denotes the current speed in miles per hour

The second input containing the floating point number which denotes the distance to the light in miles

The third input containing the floating point number which denotes the time until it turns red in seconds

Output format:

Print "Yes", if we will be able to beat the light at current speed.

Print "No", if we won't be able to beat light at current speed.

Sample Input:

59.99

1

60

Sample Output:

No

Input (stdin)

50.6

2

60

Output (stdout)

No

4.Budget

It's your job to calculate the cost of replacing damaged battle droids and to check whether it is within the budget limit of Rs. 15000. The cost of the equipment and parts is given below. Blast Rifle Rs. 350.34 Visual Sensors Rs. 230.90 Auditory Sensors Rs. 190.55 Arms Rs. 125.30 Legs Rs. 180.90 Write a program to solve this problem.

Input format:

Input consists of 5 integers

The first input denotes the number of blast rifles needed

The second input denotes the number of visual sensors needed

The third input denotes the number of auditory sensors needed

The fourth input denotes the number of arms needed

The fifth input denotes the number of legs needed

Output format:

If the total cost of replacing damaged battle droids is within the sanctioned budget of Rs. 15000, print "Yes". Otherwise, print "No"

Refer the sample output for formatting

Sample Input:

20

10

14

3

9

Sample Output:

Yes

Input (stdin)

13

12

14

13

17

Output (stdout)

Yes

5.Sece Dinning

The catering staff in the SECE mess are known for their good cooking skills as well as hospitality. We all know that the dining table arrangement needs to be different for left-handed and right-handed persons. So whenever any VIP guests come to SECE, they would make the table arrangements based on whether they are left-handed or right-handed. The mess is situated on the 15th floor of the hostel building. SECE hostel building has super-fast elevators to help to travel from one floor to another. Each elevator has 2 doors, the front one and the rear one. If a person enters the elevator through the front door, he goes out through the rear door and vice-versa. The elevator has 2 rails numbered as 1 and 2. Rail 1 is located to the left of the entrance to the front door (or correspondingly, to the right of the entrance to the rear door). Rail 2 is located opposite it, to the right of the entrance to the front door and to the left of the entrance to the rear

door. We know that each person holds on the rail with his/her strongest hand. There is an IP camera in the elevator and based on the camera output, the catering staff will be easily able to identify whether a guest is left-handed or right-handed. They have decided to automate this task and they asked the help of Image Processing Group. The Image Processing Group has written a program to perform this task and the program will output the door through which the person entered and the rail number which the person held. Based on this input, write a program to determine whether a person is left-handed or right-handed?

Input format:

The first input containing a string denotes "front" or "rear"

The second input containing an integer denotes rail 1 or 2

Output format:

Print the string "Left Handed" or "Right Handed"

Sample Input:

front

1

Sample Output:

Left Handed

Input (stdin)

front

0

Output (stdout)

Right Handed

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