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# PL-2022-C-Classifying Triangles

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Problem

Submissions

Leaderboard

Discussions

A triangle can be classified based on the lengths of its sides as equilateral, isosceles or scalene. All three sides of an equilateral triangle have the same length. An isosceles triangle has two sides that are the same length, and a third side that is a different length. If all of the sides have different lengths then the triangle is scalene.

Write a program that reads the lengths of the three sides of a triangle from the user. Then display a message that states the triangle's type.

## Input Format

-

## Constraints

-

## Output Format

-

## Sample Input 0

```
10.0
10.0
10.0
```

## Sample Output 0

```
Equilateral
```

## Sample Input 1

```
10.0
20.0
30.0
```

## Sample Output 1

```
Scalene
```

[f](#) [t](#) [in](#)

Submissions: 735

Max Score: 100

Difficulty: Medium

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C



```
1 ▼ #include <stdio.h>
2  #include <string.h>
3  #include <math.h>
4  #include <stdlib.h>
5
6 ▼ int main() {
7
8  ▼    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
9  double a,b,c;
10  scanf("%lf\n%lf\n%lf",&a,&b,&c);
11 ▼  if(a==b&&b==c&&c==a){
12      printf("Equilateral");
13  }
14 ▼  else if(a!=b&&b!=c&&c!=a){
15      printf("Scalene");
16  }
17 ▼  else{
18      printf("Isosceles");
19  }
20  return 0;
21 }
22
```

Line: 1 Col: 1

[Upload Code as File](#)

Test against custom input

Run Code

Submit Code