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NPAT 2017

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inequality● Q3. Does
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array● Q4.
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given integers● Q5. Largest
sum of m
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frequent 3
integers

○ Practice Corner

○ Compiler
Information

Q2. Triangle inequality

Due on 2017-08-13, 18:00 IST

Weightage: 10%

Note: In this question, you have to understand the code that is given and provide a testcase as explained in the problem statement.

The following function takes three positive integer arguments a, b, c representing the sides of a triangle (hence, these integers satisfy the triangle inequality). The function should return 3 if the triangle is equilateral, it should return 2 if the triangle is isosceles but not equilateral, and it should return 1 otherwise. Identify values a, b, c for which the given function does NOT work.

```
int triangleType(int a, int b, int c) {
    if(a != b && b != c)
        return 1;
    else if(a == b && a == c)
        return 3;
    else
        return 2;
}
```

Open up the code submission box below and write your test case where you would normally enter your code. Your input should be in the form:

a, b, c

where a, b and c are all positive integers.

Sum of
two numbers

☐ Solution for
Sum of two
numbers

Factorial

☐ Solution for
Factorial

Reverse
Words

Store
Credit

☐ Solution for
Reverse
Words

Leap Year

Sample Test Cases

	Input	Output
Test Case 1		correct
Test Case 2		correct

Due Date Exceeded. You scored 0.0/100.

Your last recorded submission was :

```

1  #include <stdio.h>
2
3  int num[3]={
4  1,0,1
5  };
6
7  int triangleType_bad(int a, int b, int c) {
8      if(a != b && b != c)
9          return 1;
10     else if(a == b && a == c)
11         return 3;
12     else
13         return 2;
14 }
15
16 int triangleType_good(int a, int b, int c) {
17     if((a == c) && (b != a) && (a <= b+c) && (b <= a+c) && (c
18         return 0;
19
20     if(a != b && b != c)
21         return 1;
22     else if(a == b && a == c)
23         return 3;
24     else
25         return 2;
26 }
27
28
29 int main() {
30
31     if(triangleType_bad(num[0], num[1], num[2]) != triangleT
32         printf("correct\n");
33     else
34         printf("wrong\n");
35
36     return 0;
37 }
38

```

End

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