GE23131-Programming Using C-2024

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Week 3-1:

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Saturday, 26 October 2024, 2:50 PM
Duration	58 days 2 hours

Problem 1:

Write a program to read two integer values and print true if both the numbers end with the same digit, otherwise print false.

Example: If 698 and 768 are given, program should print true as they both end with 8.

Sample Input 1

25 53

Sample Output 1

false

Sample Input 2

27 77

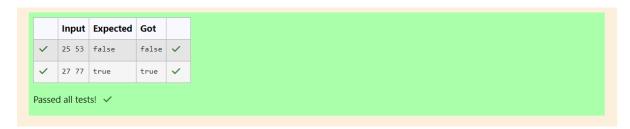
Sample Output 2

true

CODE:

```
Answer: (penalty regime: 0 %)
    1 |#include <stdio.h>
   2 int main()
3 * {
            int a,b,last1,last2;
scanf("%d%d",&a,&b);
last1 = a%10;
last2 = b%10;
    4
            if(last1==last2)
   10
                 printf("true");
   11
   12 v
            else{
   13
             printf("false");
   14
             return 0;
   15
   16 }
```

OUTPUT:



Problem 2:

In this challenge, we're getting started with conditional statements.

Task

Given an integer, n, perform the following conditional actions:

- If n is odd, print Weird
- If n is even and in the inclusive range of 2 to 5, print Not Weird
- If n is even and in the inclusive range of 6 to 20, print Weird
- If n is even and greater than 20, print Not Weird

Complete the stub code provided in your editor to print whether or not n is weird.

Input Format

A single line containing a positive integer, n.

Constraints

• 1 < n < 100

Output Format

Print Weird if the number is weird; otherwise, print Not Weird.

Sample Input 0

3

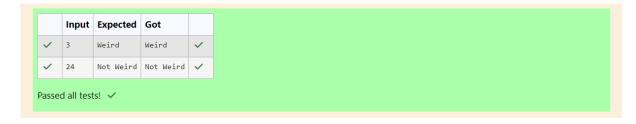
Sample Output 0

Weird

CODE:

```
#include <stdio.h>
 2 v int main(){
        int a;
scanf("%d",&a);
 3
 4
 5 🔻
        if (a%2 == 0){
           if (a>=2 && a<=5){
 6 🔻
                printf("Not Weird");
 8
9 🔻
            else if (a>=6 && a<=20){
10
               printf("Weird");
11
12 🔻
            else if (a>20){
                printf("Not Weird");
13
14
15
        else if (a%2!= 0){
16 ▼
17
           printf("Weird");
18
19 🔻
        else{
20
            printf("Not Weird");
21
22
        return 0;
   }
23
```

OUTPUT:



Problem 3:

Three numbers form a Pythagorean triple if the sum of squares of two numbers is equal to the square of the third.

For example, 3, 5 and 4 form a Pythagorean triple, since 3*3 + 4*4 = 25 = 5*5

You are given three integers, a, b, and c. They need not be given in increasing order. If they form a Pythagorean triple, then print "yes", otherwise, print "no". Please note that the output message is in small letters.

Sample Input 1

3

5

4

Sample Output 1

Yes

CODE:

```
1 #include <stdio.h>
 2 v int main(){
 3
         int a,b,c;
 4
        //int ab = a*a+b*b;
        scanf("%d %d %d",&a,&b,&c);
  5
  6
       // int ab = a*a+(b*b);
 7 🔻
        if (a>=b \&\& a>=c){
 8
             int ab = b*b + (c*c);
             if (ab == a*a){
 10
                printf("yes");
 11
 12 •
                printf("no");
 13
 14
 15
         else if(b>=a && b>=c){
 16 🔻
            int ab = a*a+(c*c);
 17
 18 🔻
            if (ab == b*b){
 19
                printf("yes");
 20
 21 •
            else{
 22
            printf("no");
 23
 24
         else if(c>=a && c>=b){
 25 🔻
           int ab = a*a+(b*b);
 26
 27 🔻
            if (ab == c*c){
            printf("yes");
 28
 29
 30 ₹
            else{
            printf("no");
 31
 32
 33
           // printf("yes");
 34
 35 ₹
         else{
 36
           printf("no");
 37
 38
         return 0;
 39
 40 }
```

OUTPUT:

input	Expected	Got	
5	yes	yes	~
4			
5 r 8 2	no	no	~