Week- 3 - 01:

--Coding-C-Language Features-Optional.

ROLL NO.:240801133

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Q1) 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:

```
Status Finished

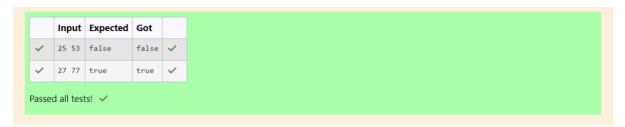
Started Monday, 23 December 2024, 5:33 PM

Completed Thursday, 7 November 2024, 9:34 AM

Duration 46 days 7 hours
```

```
1 #include <stdio.h>
2
3 v int main(){
        int num1 , num2;
4
        scanf("%d %d",&num1,&num2);
5
        int lastDigit1 = num1%10;
6
 7
        int lastdigit2 = num2%10;
8 🔻
        if(lastDigit1 == lastdigit2){
            printf("true\n");
9
10
        }
        else{
11 v
            printf("false\n");
12
13
14
        return 0;
15 }
```

OUTPUT:



Q2) 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

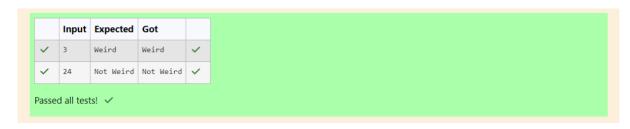
Sample Output 0

Weird

CODE:

```
#include <stdio.h>
 2
 3 v int main(){
        int n;
4
        scanf("%d",&n);
 5
        if(n%2!=0){
 6 🔻
            printf("Weird\n");
 7
 8
        }else{
 9 🔻
             if(n>=2\&\&n<=5){}
10 •
             printf("Not Weird\n");
11
             }else if (n>=66&&n<=20){
12 *
             printf("Weird\n");
13
14 ▼
        }else if (n>20){
15
            printf("Not Weird\n");
16
17
18
        return 0;
19
   }
```

OUTPUT:



Q3) 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*5You 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:

```
|#include <stdio.h>
 2
 3 v int main(){
        int a,b,c;
 4
        scanf("%d %d %d",&a,&b,&c);
 5
        if((a*a+b*b==c*c)||(a*a+c*c==b*b)||(b*b+c==a*a)){}
 6 •
 7
             printf("yes\n");
        }else{
 8 🔻
            printf("no\n");
 9
10
11
12
        return 0;
13
     }
14
```

OUTPUT:

