WEEK:03 DECISION MAKING AND BRANCHING – IF, IF....ELSE, NESTED IF....ELSE, IF....ELSE IF, SWITCH-CASE

WEEK:03 01

ROLL NO:240801161

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Status Finished

Started Monday, 23 December 2024, 5:33 PM

Completed Saturday, 26 October 2024, 2:44 PM

Duration 58 days 2 hours

SAME DIGIT

Problem Statement:

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

PROGRAM:

OUTPUT:

	Input	Expected	Got		
~	25 53	false	false	~	
~	27 77	true	true	~	
Passed all tests! 🗸					

QUESTION:2

INTRO TO CONDITIONAL STATEMENTS

Problem Statement:

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

PROGRAM:

```
Answer: (penalty regime: 0 %)
   1 |#include <stdio.h>
   2 int main()
3 *
   4
            int a;
scanf("%d",&a);
if (a%2 != 0)
   6
7 *
           {
    printf("Weird\n");
   8
  10
            else
            if (a>=2 && a<=5)
  11
  12 v
13
            {
    printf("Not Weird\n");
}
  14
15
  16
17
            if (a>=6 && a<=20)
            {
    printf("weird\n");
}
  18
  19
  20
            else
  21
            if (a>20)
  22 <sub>▼</sub>
            {
                printf("Not Weird\n");
  24
25
  26
27
  28
29
30
            return 0;
       }
```

OUTPUT:

	Input	Expected	Got				
~	3	Weird	Weird	~			
~	24	Not Weird	Not Weird	~			
Passe	Passed all tests! 🗸						

QUESTION:3

PYTHAGOREAN TRIPLES

Problem Statement:

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

PROGRAM:

OUTPUT:

