Week 3 – 1:

--Decision Making and Branching - if, if...else and nested if...else, if...else if, Switch-case

ROLL NO.:241501225

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Monday, 28 October 2024, 9:49 PM
Duration	55 days 19 hours
	22 22,2 22 22 22

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

2777

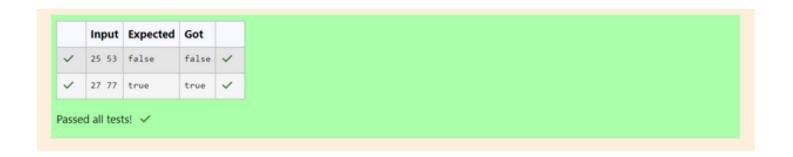
Sample Output 2

true

Code:

```
Answer: (penalty regime: 0 %)
   1 #include<stdio.h>
   2 int main()
   3 + {
   4
          int a,b;
   5
          scanf("%d %d",&a,&b);
          if(a%10==b%10)
   6
   7 +
               printf("true");
   8
          }
   9
  10
          else
  11 +
          {
               printf("false");
  12
  13
  14 }
```

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
- $\boldsymbol{\cdot}$ 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

Sample Input 1

24

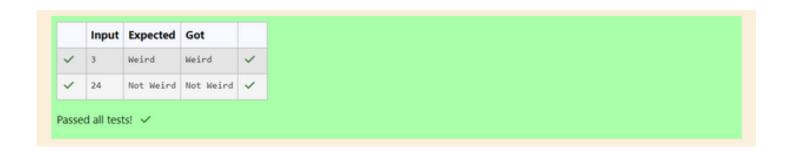
Sample Output 1

Not Weird

Code:

```
Answer: (penalty regime: 0 %)
   1 #includecstdio.h>
   2
       int main()
   3 + {
          int n;
   4
          scanf("%d ",&n);
   5
   6
          if(n%2==0 && n>=2 && n<=5)
   7 +
   8
              printf("Not Weird");
   9
  10
          else if((n%2==0) && (n>=6 && n<=20))
  11
  12 +
          {
              printf("Weird");
  13
  14
          else if(n%2--0 && n>20)
  15
  16 +
          {
              printf("Not Weird");
  17
          }
  18
  19
          else
  20 +
          {
              printf("Weird");
  21
          }
  22
  23
```

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*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

Sample Input 1

output message is in small letters.

3

5

4

Sample Output 1

yes

Sample Input 2

5

8

2

Sample Output 2

no

Code:

```
Answer: (penalty regime: 0 %)
   1 #include<stdio.h>
   2 int main()
   3 + {
       int a,b,c;
scanf("%d %d %d",&a,&b,&c);
   4
   5
   6
       if(a*a == b*b+c*c)
   7 + {
   8
        printf("yes");
   9
  10
       else if(b*b == c*c+a*a)
  11 +
         printf("yes");
  12
  13
  14
       else if(c*c == a*a+b*b)
  15 +
         printf("yes");
  16
  17
  18
       else
  19 + {
         printf("no");
  20
  21
  22 }
```

OUTPUT:

