Week 3-1:

--Practice Session- Coding

ROLL NO.:240801175

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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
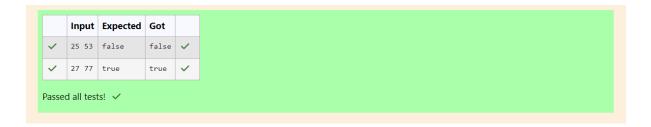
false

Sample Input 2

27 77

Sample Output 2

true

Code:

```c
#include<stdio.h>

int main(){
    int a,b;
    scanf("%d %d",&a,&b);
    a%10==b%10?printf("true"):printf("false");
    return 0;
}
```

Output:

	Input	Expected	Got	
✓	25 53	false	false	✓
✓	27 77	true	true	✓

Passed all tests! ✓

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.
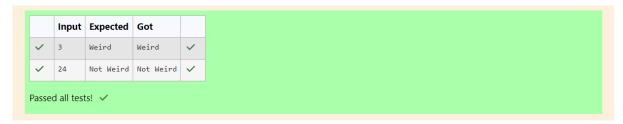
Sample Input 0

3

Sample Output 0

Weird

Code:

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

Output:

	Input	Expected	Got	
✓	3	Weird	Weird	✓
✓	24	Not Weird	Not Weird	✓

Passed all tests! ✓

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

output message is in small letters.

Sample Input 1

3

5

4

Sample Output 1

Yes

Code:

```c
#include<stdio.h>

int main(){
    int a,b,c;
    scanf("%d %d %d",&a,&b,&c);
    if(a*a+b*b==c*c ||b*b+c*c==a*a||c*c+a*a==b*b){
        printf("yes");
    }
    else{
        printf("no");
    }
    return 0;
}
```

Output:

	Input	Expected	Got	
✓	3 5 4	yes	yes	✓
✓	5 8 2	no	no	✓

Passed all tests! ✓