Week 3 – 1:

--Coding-C-Language Features-Optional.

ROLL NO.:240801174

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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

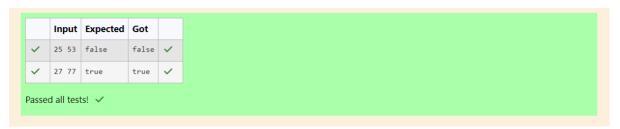Sample Output 1

false

Sample Input 2

27 77

Sample Output 2

true

Code:

| Status | Finished |
| --- | --- |
| Started | Monday, 23 December 2024, 5:33 PM |
| Completed | Saturday, 26 October 2024, 2:32 PM |
| Duration | 58 days 3 hours |

Question 1
Correct
Marked out of 3.00
⚑ Flag question

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

Answer: (penalty regime: 0 %)

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

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.
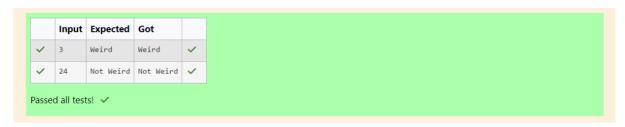
Sample Input 0

3

Sample Output 0

Weird

Code:

```c
#include<stdio.h>
int main()
{
    int n;
    scanf("%d",&n);
    if(n%2==0 && n<=5)
    {
        printf("Not Weird");
    }
    else if(n%2==0 && n<=20 )
    {
        printf("Weird");
    }
    else if(n%2==0 && n>20)
    {
        printf("Not Weird");
    }
    else
    {
        printf("Weird");
    }

    return 0;
}
```

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:

Answer: (penalty regime: 0 %)

```c
1  #include<stdio.h>
2  int main()
3  {
4      int a, b, c;
5      scanf("%d %d %d",&a,&b,&c);
6      if(a*a + b*b == c*c || b*b + c*c == a*a || c*c + a*a == b*b)
7      {
8          printf("yes");
9      }
10     else
11     {
12         printf("no");
13     }
14     return 0;
15 }
```

OUTPUT:

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✓ | 3<br>5<br>4 | yes | yes | ✓ |
| ✓ | 5<br>8<br>2 | no | no | ✓ |

Passed all tests! ✓