

Week 3 – 1:

--Coding-C-Language Features-Optional.

ROLL NO.:240801180

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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:

<b>Status</b>	Finished
<b>Started</b>	Monday, 23 December 2024, 5:33 PM
<b>Completed</b>	Saturday, 26 October 2024, 3:04 PM
<b>Duration</b>	58 days 2 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     int ld1=a%10;
7     int ld2=b%10;
8     if(ld1 == ld2)
9     {
10         printf("true\n");
11     }
12     else
13     {
14         printf("false\n");
15     }
16     return 0;
17 }
18 }
```

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:

```

1 #include<stdio.h>
2 int main()
3 {
4     int n;
5     scanf("%d",&n);
6     if(n%2!=0)
7     {
8         printf("Weird\n");
9     }
10 }
11 else
12 {
13     if(n>=2 && n<=5)
14     {
15         printf("Not Weird\n");
16     }
17     else if(n>=6 && n<=20)
18     {
19         printf(" Weird\n");
20     }
21     else if(n>20)
22     {
23         printf("Not Weird");
24     }
25 }
26 }
27 }
28 return 0;
29 }

```

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  $3^2 + 4^2 = 25 = 5^2$

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:

```
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)||
7        (a*a+c*c==b*b)||
8        (b*b+c*c==a*a))
9     {
10        printf("yes\n");
11    }
12    else
13    {
14        printf("no\n");
15    }
16    return 0;
17 }
18 }
```

OUTPUT:

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

Passed all tests! ✓

