

Week 3 – 1:

–Coding-C-Language Features-Optional.

ROLL NO.:240801181

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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, 2:51 PM
Duration	58 days 2 hours

```
1 #include<stdio.h>
2 int main()
3 {
4     int num1,num2;
5     scanf("%d%d",&num1,&num2);
6     int lastDigit1 = num1%10;
7     int lastDigit2 = num2%10;
8     if(lastDigit1 ==lastDigit2)
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 if(n>2 && n<=5)
12     {
13         printf("Not Weird");
14     }
15     else if(n>=6 && n<=20)
16     {
17         printf("Weird");
18     }
19
20     else
21     {
22         printf("Not Weird");
23     }
24 }

```

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

OUTPUT:

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

Passed all tests! ✓