Week 3 – 1:

--Coding-C-Language Features-Optional.

ROLL NO.:240801165

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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

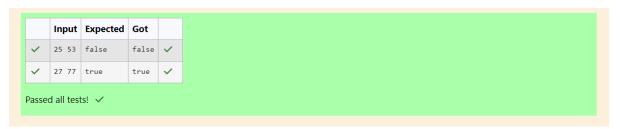
Sample Output 2

true

Code:

```
Status Finished
             Started Monday, 23 December 2024, 5:33 PM
         Completed Saturday, 26 October 2024, 2:52 PM
           Duration 58 days 2 hours
Question 1
                      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
Correct
                      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
Marked out of
                      Sample Output 2 true
Flag question
                      Answer: (penalty regime: 0 %)
                           1 # include <stdio.h>
                               int main() {
                                   int num1 , num2;
scanf("%d %d",&num1,&num2);
int lastDigit1 = num1%10;
int lastDigit2 = num2%10;
                                   if (lastDigit1 == lastDigit2){
   printf("true\n");
                                    }
else{
                         11
                         12
                                        printf("false\n");
                         13
                         14 return 0;
15 }
```

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
- 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

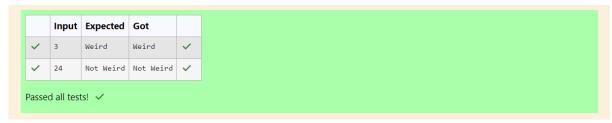
Sample Output 0

Weird

Code:

```
Answer: (penalty regime: 0 %)
    1 # include <stdio.h>
    3 v int main() {
          int n;
scanf("%d",&n);
           if(n%2!=0){
   printf("Weird\n");
   6 *
           }else{
    if (n>=2&&n<=5){
   9 v
  10
               printf("Not Weird\n");
               }else if (n>=66&&n<=20){
  11 *
  12
               printf("Weird\n");
  13 v
           }else if (n>20){
              printf("Not Weird\n");
  14
  15
  16 }
  17
       return 0;
  18 }
```

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

OUTPUT:

	Input	Expected	Got	
~	5	yes	yes	~
	4			
~	5 8	no	no	~
	2			
Passed all tests! 🗸				