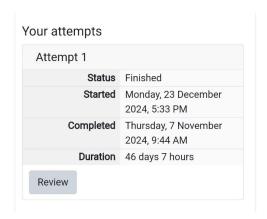
Week 3 – 1:

--Coding-C-Language Features-Optional.

ROLL NO.:240801194

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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

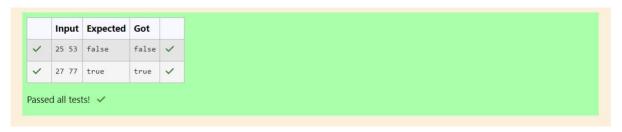
27 77

Sample Output 2

true

Code:

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

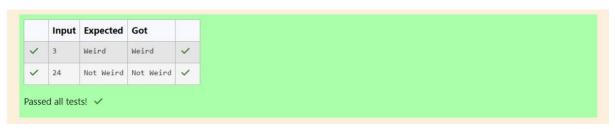
3

Sample Output 0

Weird Code:

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

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*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:

```
1 #include <stdio.h>
 2 +
     int main(){
 3
        int a,b,c;
        //int ab = a*a+b*b;
        scanf("%d %d %d",&a,&b,&c);
 5
 6
       // int ab = a*a+(b*b);
         if (a>=b && a>=c){
 7 +
             int ab = b*b + (c*c);
 8
 9 +
             if (ab == a*a){
 10
                printf("yes");
 11
             else{
 12 .
 13
                printf("no");
 14
 15
         else if(b>=a && b>=c){
 16 +
 17
            int ab = a*a+(c*c);
             if (ab == b*b){
 18 +
 19
                printf("yes");
 20
 21 +
             else{
 22
                printf("no");
 23
 24
         else if(c \ge a \&\& c \ge b){
 25 +
 26
            int ab = a*a+(b*b);
             if (ab = c*c){
 27 +
 28
                 printf("yes");
             }
 29
 30 +
             else{
 31
                 printf("no");
 32
 33
            // printf("yes");
 34
         }
 35 +
            printf("no");
 36
 37
 38
         return 0;
 39
 40 }
```

OUTPUT:

