Week 3 - 1:

--Coding-C-Language Features-Optional.

ROLL NO.:240801140

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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

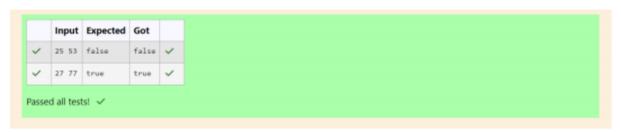
Sample Output 2

true

Code:

```
Status Finished
              Started Monday, 23 December 2024, 5:33 PM
         Completed Saturday, 26 October 2024, 2:20 PM
            Duration 58 days 3 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
                       Sample Output 2 true
Marked out of
3.00
                       Answer: (penalty regime: 0 %)
F Flag question
                            1 #include <stdio.h>
                                 int main(){
                                    main(){
  int a,b;
  scanf("%d %d",&a,&b);
  int last = a%l0;
  int laste = b%l0;
  if (last -= laste){
    printf("true");
  }
}
                                     else{
                           10
                                          printf("false");
                           12
13
                                     return 0;
```

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

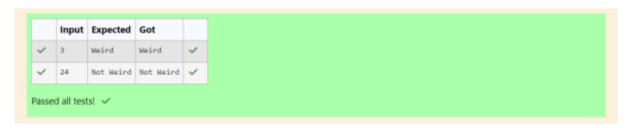
Sample Output 0

Weird

Code:

```
1 #include <stdio.h>
 2 v int main(){
       int a;
 3
      scanf("%d",&a);
5 +
      if (a%2 == 0){
6 *
          if (a>=2 && a<=5){
               printf("Not Weird");
8
9 +
          else if (a>=6 && a<=20){
10
              printf("Weird");
11
12 +
          else if (a>20){
13
              printf("Not Weird");
14
15
       else if (a%2!= 0){
16 v
17
       printf("Weird");
18
       else{
19 +
20
          printf("Not Weird");
21
22
       return 0;
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 v int main(){
      int a,b,c;
//int ab = a*a+b*b;
 4
 5
       scanf("%d %d %d",&a,&b,&c);
 6  // int ab = a*a+(b*b);
      if (a>=b && a>=c){
           int ab = b*b + (c*c);
 8
 9 +
           if (ab == a*a){
 10
          printf("yes");
 11
 12 +
           else{
13
            printf("no");
 14
15
 16 * else if(b>=a && b>=c){
 17
         int ab = a*a+(c*c);
18 +
           if (ab == b*b){
 19
          printf("yes");
 20
 21 +
           else{
 22
           printf("no");
 23
 24
 25 +
       else if(c>=a && c>=b){
          int ab = a*a+(b*b);
 26
           if (ab == c*c){
 27 +
              printf("yes");
 28
 29
 30 +
           else{
           printf("no");
 31
 32
           // printf("yes");
 33
 34
 35 +
        else{
        printf("no");
 36
 37
 38
        return 0;
 39
40 }
```

OUTPUT:

Input	Expected	Got	
/ 3	yes	yes	~
5			
4			
/ 5	no	no	~
8			
2			