Week 3-1:

--Coding-C-Language Features-Optional.

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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:

25 53	Expected	false	1
25 55	Taise	Tarse	•
/ 27 77	true	true	~

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

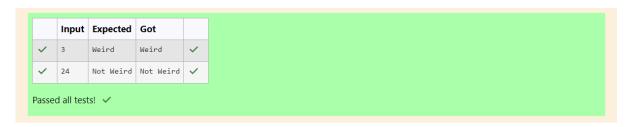
Sample Output 0

Weird

Code:

```
#include <stdio.h>
 2 v int main(){
         int a;
scanf("%d",&a);
 3
 4
         if (a%2 == 0){
  if (a>=2 && a<=5){
 5 *
 6 •
                  printf("Not Weird");
 7
 8
              else if (a>=6 && a<=20){
 9 ,
                  printf("Weird");
10
11
              else if (a>20){
12 •
13
                  printf("Not Weird");
14
15
         else if (a%2!= 0){
   printf("Weird");
16 •
17
18
19 •
             printf("Not Weird");
20
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 - int main(){
        int a,b,c;
 3
         //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 ,
  8
             int ab = b*b + (c*c);
             if (ab == a*a){
 9 ,
 10
                printf("yes");
 11
 12 +
             else{
              printf("no");
 13
 14
 15
         else if(b>=a && b>=c){
 16 •
            int ab = a*a+(c*c);
 17
             if (ab == b*b){
 18 *
 19
                printf("yes");
 20
 21 +
             else{
 22
                printf("no");
 23
 24
 25 +
         else if(c>=a && c>=b){
 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 *
         else{
         printf("no");
 36
 37
 38
         return 0;
 39
 40 }
```

OUTPUT:

input	Expected	GOT	
/ 3	yes	yes	~
5			
4			
/ 5	no	no	~
8			
2			
ssed all tes	tel ./		