Week 3-1

Operators and Expressions, Managing Input and Output Operations

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Attempt 1	
Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Thursday, 24 October 2024, 9:37 AM
Duration	60 days 7 hours

Problem 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 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

```
#include<stdio.h>
 2
   int main()
 3 √ {
 4
        int num1,num2;
 5
        scanf("%d %d",&num1,&num2);
        int lastDigit1 =num1 % 10;
 6
 7
        int lastDigit2 = num2 % 10;
        if(lastDigit1 == lastDigit2){
 8 ,
 9
            printf("true\n");
10 *
        }else{
11
            printf("false\n");
12
13
        return 0;
14
15 }
```

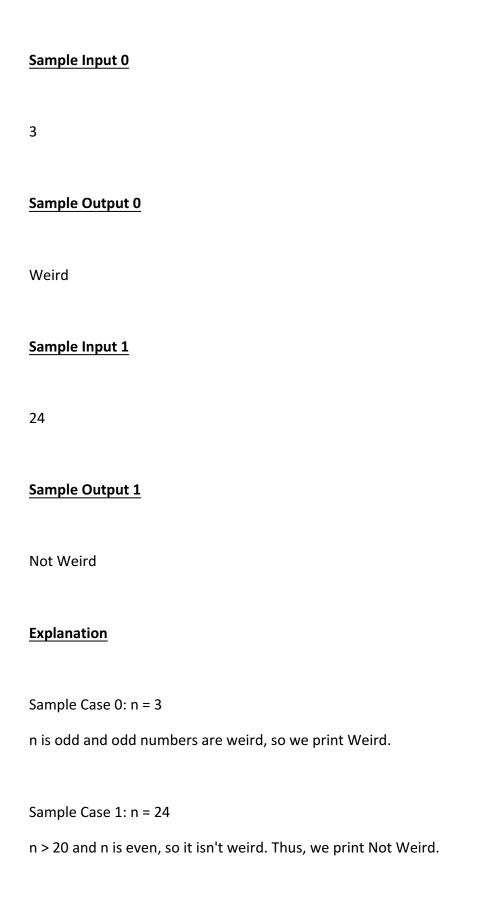
OUTPUT:

Problem 2:	
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	

Output Format

· 1 < n < 100

Print Weird if the number is weird; otherwise, print Not Weird.



Code:

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

OUTPUT:



Problem 3:

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 Sample Input 2 5 8 2 Sample Output 2 no

Code:

```
#include<stdio.h>
    int main()
3 √ {
4
        int a,b,c;
        scanf("%d %d %d",&a,&b,&c);
5
 6
        if((a * a + b * b == c * c) ||
7
        (a * a + c * c == b * b) ||
        (b * b + c * c == a * a)){
8 ,
            printf("yes\n");
9
10 •
            printf("no\n");
11
12
13
        return 0;
14 }
```

OUTPUT:

