WEEK 3-01

Decision Making and Branching – if, if...else, nested if...else, if...else if, Switch-Case

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Attempt 2	
Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Tuesday, 5 November 2024, 9:09 PM
Duration	47 days 20 hours

PROGRAM 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:

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
    int main()
3 ▼ {
        int a,b;
 4
        scanf("%d %d",&a,&b);
 5
6
        if (a%10 == b%10)
 7 ▼
            printf("true\n");
 8
9
        else
10
11 ▼
            printf("false\n");
12
13
        return 0;
14
15
```

OUTPUT:

	Input	Expected	Got	
~	25 53	false	false	~
~	27 77	true	true	~

Passed all tests! <

PROGRAM 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

• 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 %)

```
#include<stdio.h>
    int main()
 2
3 ₹ {
4
         int n;
         scanf("%d",&n);
5
         if (n%2==0)
 6
7 ▼
         {
8
             if(n >= 2 \&\& n <= 5)
9 ▼
                 printf("Not Weird");
10
11
             else if (n >= 6 && n <= 20)
12
13 ▼
             {
                 printf("Weird");
14
15
             else
16
17 ▼
                 printf("Not Weird");
18
             }
19
20
         }
21
         else
22 ₹
         {
             printf("Weird");
23
24
25
         return 0;
26
    }
```

OUTPUT:

	Input	Expected	Got	
~	3	Weird	Weird	~
~	24	Not Weird	Not Weird	~
Passed	d all test		Not Weird	~

PROGRAM 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

CODE:

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
    int main()
 2
 3 ₹ {
 4
        int a,b,c;
 5
        scanf("%d %d %d",&a,&b,&c);
        if((a*a)+(b*b)==(c*c) | | (a*a)+(c*c)==(b*b) | | (b*b)+(c*c)==(a*a))
 6
 7 🔻
            printf("yes");
 8
 9
        }
        else
10
11 🔻
           printf("no");
12
13
14
        return 0;
   }
15
```

OUTPUT:

In	put Exp	ected Go	t
✓ 3 5 4	yes	yes	~
✓ 5 8 2	no	no	~

Passed all tests! <