Week-03-Decision Making and Branching - if, if...else and nested if...else, if...else if and switch...case

Week-03-01-Practice Session-Coding	✓ Done
Week-03-02-Practice Session-Coding	✓ Done
Week-03-03-Practice Session-Coding	✓ Done

GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Sunday, 3 November 2024, 1:27 PM
Duration	50 days 4 hours

Question 1

Correct

Marked out of 3.00

Flag question

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

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main()
{
    int a,b;
    scanf("%d %d",&a,&b);
    int c=a%10,d=b%10;
    if(c==d)
    printf("true");
    else
    printf("false");
    return 0;
}
```

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

Passed all tests! ✓

Question 2

Correct

Marked out of 3.00

Flag question

Objective

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

- $1 \leq n \leq 100$

Output Format

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

Sample Input 0

3

Sample Output 0

Weird

Sample Input 1

24

Sample Output 1

Not Weird

Explanation

Sample Case 0: ***n = 3***

n is odd and odd numbers are weird, so we print ***Weird***.

Sample Case 1: ***n = 24***

n > 20 and ***n*** is even, so it isn't weird. Thus, we print ***Not Weird***.

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main()
{
    int n;
    scanf("%d",&n);
    if(n>0 && n<101)
    {
    if(n%2!=0)
    printf("Weird\n");
    else
    {
        if(n>=2 && n<=5)
        printf("Not Weird\n");
        else if(n>=6 && n<=20)
        printf("Weird\n");
        else if(n>20)
        printf("Not Weird\n");
    }
    }
return 0;
}
```

	Input	Expected	Got	
✓	3	Weird	Weird	✓
✓	24	Not Weird	Not Weird	✓

Passed all tests! ✓

Question 3

Correct

Marked out of 7.00

Flag question

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

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main()
{
    int a,b,c,g,d,e;
    scanf("%d %d %d",&a,&b,&c);
    if(a>b && a>c)
    {
        g=a;
        d = b*b + c*c;
        e= g*g;
    }
    else if(b>a && b>c)
    {
        g=b;
        d = a*a + c*c;
        e = g*g;
    }
    else
    {
    g=c;
    d = a*a + b*b;
    e = g*g;
    }
    if(d==e)
    printf("yes");
    else
    printf("no");
    return 0;
}
```

	Input	Expected	Got	
✓	3 5 4	yes	yes	✓
✓	5 8 2	no	no	✓

Passed all tests! ✓

Finish review