GE23131-Programming Using C-2024

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Saturday, 26 October 2024, 1:19 PM
Duration	58 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);
    if(a%10==b%10)
    printf("true");
```

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 %)

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

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

Question **2**

Correct

Marked out of 5.00

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

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%2!=0)

        printf("Weird\n");

    else
      {
        if(n>=2 && n<=5)

            printf("Not Weir

        else if(n>=6 && n<=2

            printf("Weird\n"

        else if(n>20)

            printf("Not Weir
```

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main()
{
    int n;
    scanf("%d",&n);
    if(n%2!=0)

        printf("Weird\n");

    else
      {
        if(n>=2 && n<=5)

            printf("Not Weir

        else if(n>=6 && n<=2

            printf("Weird\n"

        else if(n>20)

            printf("Not Weir

      }
    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 %)

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

```c
int main()
{
    int a,b,c;
    scanf("%d%d%d",&a,&b,&c);
    if(a>b&&a>c)
    {
        if(a*a==b*b+c*c)
        printf("yes\n");
        else
        printf("no\n");
    }
    else if(b>a&&b>c)
    {
        if(b*b==a*a+c*c)
        printf("yes\n");
        else
        printf("no\n");
    }
    else
    {
        if(c*c==a*a+b*b)
        printf("yes\n");
        else
        printf("no\n");
    }
    return 0;
}
```

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