# GE23131-Programming Using C-2024

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| **Status** | Finished |
| **Started** | Monday, 23 December 2024, 5:33 PM |
| **Completed** | Monday, 4 November 2024, 2:32 PM |
| **Duration** | 49 days 3 hours |

Question **1**

Correct

Marked out of 3.00

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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 | ✓ |

Passed all tests! ✓

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

**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 %)

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

| | 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*a+b*b == c*c)
    {printf("yes");}
    else if(b*b+c*c ==a*a)
     {printf("yes");}
     else if(c*c+a*a == b*b)
      {printf("yes");}
      else
      { printf("no");}
}
```

| | Input | Expected | Got | |
|---|---|---|---|---|
| ✓ | 3<br>5<br>4 | yes | yes | ✓ |
| ✓ | 5<br>8<br>2 | no | no | ✓ |

Passed all tests! ✓