

# GE23131-Programming Using C-2024

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<b>Status</b>	Finished
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<b>Duration</b>	10 days 6 hours

Question **1**

Correct

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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 %)

```
1 #include <stdio.h>
2 int main()
3 {
4     int x,y;
5     scanf("%d %d",&x,&y);
6     if(x%10==y%10){
7         printf("true");
8     } else
9     {
10        printf("false");
11    }
12 }
```

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

Passed all tests! ✓

Question **2**

Correct

Marked out of  
5.00

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**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.

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**

## 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 %)

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

✓	3	Weird	Weird	✓
✓	24	Not Weird	Not Weird	✓

Passed all tests! ✓

Question **3**

Correct

Marked out of  
7.00

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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  $3^2 + 4^2 = 25 = 5^2$ . 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 %)

```

1  #include <stdio.h>
2  int main()
3  {
4      int a,b,c;
5      scanf("%d%d%d",&a,&b,&c);
6      if(a*a+b*b==c*c){
7          printf("yes");
8      }
9      else if (a*a+c*c==b*b){
10         printf("yes");
11     }
12     else if (b*b+c*c==a*a){
13         printf("yes");
14     }
15     else{
16         printf("no");
17     }
18 }
```

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

Passed all tests! ✓

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