

GE23131-Programming Using C-2024

Quiz navigation

1

2

3

Show one page at a time

Finish review

Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Thursday, 7 November 2024, 8:40 AM
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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 %)

```
1 #include <stdio.h>
2 int main()
3 {
4     int a,b;
5     scanf("%d %d",&a,&b);
6     if (a%10==b%10)
7         printf("true");
8     else
9         printf("false");
10    return 0;
11 }
```

	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 a;
5     scanf("%d",&a);
6     if (a%2!=0)
7         printf("Weird");
8     else if (a%2==0 && a>=2 && a<=5)
9         printf("Not Weird");
10    else if (a%2==0 && a>=6 && a<=20 )
11        printf("Not Weird");
12    else if(a%2==0 && a>=6 && a>20)
13        printf("Not Weird");
14    return 0;
15 }
```

✓	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 $3*3 + 4*4 = 25 = 5*5$. 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 %)

```
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 || b*b + c*c == a*a || c*c + a*a == b*b)
7         printf("yes");
8     else
9         printf("no");
10    return 0;
11 }
```

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

Passed all tests! ✓

Finish review