

GE23131-Programming Using C-2024

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Status Finished

Started Monday, 23 December 2024, 5:33 PM

Completed Friday, 25 October 2024, 1:10 PM

Duration 59 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 %)

```
1 #include<stdio.h>
2 int main(){
3     int a,b,int n;int n1; int count=0;
4     scanf("%d\n%d",&a,&b);
5     while((a!=0)&&(b!=0)){
6         n=a%10;
7         n1=b%10;
8         a=a/10;
9         b=b/10;
10        if (n==n1){
11            count=1;
12        }
13    }
14    if(count==1){
15        printf("true");
16    }
17    else{
18        printf("false");
19    }
20
21
22
23    return 0;
24
25 }
```

	Input	Expected	Got	
✓	25 53	false	false	✓

✓	27	77	true	true	✓
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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

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 %)

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

```
21     return 0;  
22 }
```

	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 $3^2 + 4^2 = 5^2$. 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     int a,b,c;  
4     int n;  
5  
6     scanf("%d\n%d\n%d\n",&a,&b,&c);  
7  
8     if((a>b)&&(a>c)){  
9         n=(b*b)+(c*c);  
10        if((a*a)==n){  
11            printf("yes");  
12        }  
13        else{  
14            printf("no");  
15        }  
16    }  
17  
18    else if((b>a)&&(b>c)){  
19        n=(a*a)+(c*c);  
20        if((b*b)==n){  
21            printf("yes");  
22        }  
23        else{  
24            printf("no");  
25        }  
26    }  
27  
28    else if ((c>a)&&(c>b)){  
29        n=(a*a)+(b*b);  
30        if((c*c)==n){  
31            printf("yes");  
32        }
```

```
33     }
34     else{
35         printf("no");
36     }
37 }
38 }
39 return 0;
40 }
```

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

Passed all tests! ✓

Finish review