

GE23131-Programming Using C-2024

Quiz navigation



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Status Finished

Started Monday, 23 December 2024, 5:33 PM

Completed Tuesday, 5 November 2024, 12:42 PM

Duration 48 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 {
4     int a,b;
5     scanf("%d %d",&a,&b);
6     if(a%10 == b%10)
7     {
8         printf("true");
9     }
10    else
11    {
12        printf("false");
13    }
14 }
```

	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 .

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 %)

```
1 #include<stdio.h>
2 int main()
3 {
4     int a;
5     scanf("%d",&a);
6
7     if(a%2==0)
8     {
9         if(a<5)
10        {
11            printf("Not Weird");
12        }
13        else if(a<21)
14        {
15            printf("Weird");
16        }
17        else if(a>21)
18        {
19            printf("Not Weird");
20        }
21        else
22        {
23            printf("Not weird");
24        }
25    }
26    else
27    {
28        printf("Weird");
29    }
30
31
32 }
```

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

```

23         printf("Not weird");
24     }
25 }
26 else
27 {
28     printf("Weird");
29 }
30
31
32 }

```

	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 $3^2 + 4^2 = 25 = 5^2$. 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,d,e;
5      scanf("%d %d %d",&a,&b,&c);
6      d=a*a;
7      e=b*b + c*c;
8      if(a>b && a>c)
9      {
10         if(d==e)
11         {
12             printf("yes");
13         }
14         else
15             printf("no");
16     }
17     d=b*b;
18     e=a*a + c*c;
19     if(b>c)
20     {
21         if(d==e)
22         {
23             printf("yes");
24         }
25         else
26         {
27             printf("no");
28         }
29     }
30     d=c*c;
31     e=a*a + b*b;
32     if(c>a && c>b)
33     {
34         if(d==e)
35         {
36             printf("yes");
37         }
38         else
39         {
40             printf("no");
41         }
42     }
43 }

```

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

Passed all tests! ✓