Assessment-05-Decision Making and Looping - while and do...while

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GE23131-Programming Using C-2024

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Attempts allowed: 1

This quiz has been configured so that students may only attempt it using the Safe Exam Browser.

Time limit: 1 hour 30 mins

Your attempts

Attempt 1

Status	Finished
Started	Thursday, 26 December 2024, 6:03 PM
Completed	Thursday, 26 December 2024, 6:42 PM
Duration	39 mins 7 secs

Review

No more attempts are allowed

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Show one page at a time

Finish review

Status	Finished
Started	Thursday, 26 December 2024, 6:03 PM
Completed	Thursday, 26 December 2024, 6:42 PM
Duration	39 mins 7 secs

Question **1**

Incorrect

Marked out of 1.00

Flag question

Write a C program to count total number of digits of an Integer number (N).

Sample Test Cases

Test Case 1

Input

3456

Output

The number 3456 contains 4 digits.

Test Case 2

Input

30000

Output

The number 30000 contains 5 digits.

Test Case 3

Input

57

Output

The number 57 contains 2 digits.

Test Case 4

Input

Test Case 3

Input

57

Output

The number 57 contains 2 digits.

Test Case 4

Input

909

Output

The number 909 contains 3 digits.

For example:

Input	Result
3456	The number 3456 contains 4 digits.
30000	The number 30000 contains 5 digits.
57	The number 57 contains 2 digits.
909	The number 909 contains 3 digits.

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main()
{
    int n,count=0;
    scanf("%d",&n);
```

Coding: Attempt review | REC-CIS - Google Chrome

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REC-CIS

```c
#include<stdio.h>
int main()
{
    int n,count=0;
    scanf("%d",&n);
    int temp=n;
    if(n==0)
    {
        count=1;
    }
    else
    {
        do{
            temp=temp/10;
            count++;
        }
        while(temp!=0);
    }
    printf("The number %d contains %d digits.",n,count);
    return 0;
    }
```

	Input	Expected	Got	
✓	3456	The number 3456 contains 4 digits.	The number 3456 contains 4 digits.	✓
✓	30000	The number 30000 contains 5 digits.	The number 30000 contains 5 digits.	✓
✓	57	The number 57 contains 2 digits.	The number 57 contains 2 digits.	✓
✓	909	The number 909 contains 3 digits.	The number 909 contains 3 digits.	✓

Your code failed one or more hidden tests.

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Question **2**

Correct

Marked out of 1.00

Flag question

Write a C program to check whether the given number(N) can be expressed as Power of Two (2) or not.

For example, 8 can be expressed as 2^3.

Sample Test Cases

Test Case 1

Input

8

Output

8 is a number that can be expressed as power of 2.

Test Case 2

Input

46

46

Output

46 cannot be expressed as power of 2.

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int ispower(int n)
{
    if(n<=0)
    {
        return 0;
    }
    while(n>1)
    {
        if(n%2!=0)
        {
            return 0;
        }
        n/=2;
    }
    return 1;
}
int main()
{
    int n;
    scanf("%d",&n);
    if(ispower(n))
    {
        printf("%d is a number that can be expressed as power of 2.",n);
    }
```

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REC-CIS

```
            return 0;
        }
        n/=2;
    }
    return 1;
}
int main()
{
    int n;
    scanf("%d",&n);
    if(ispower(n))
    {
        printf("%d is a number that can be expressed as power of 2.",n);
    }
    else
    {
        printf("%d cannot be expressed as power of 2.",n);
    }
    return 0;
}
```

	Input	Expected	Got	
✓	8	8 is a number that can be expressed as power of 2.	8 is a number that can be expressed as power of 2.	✓
✓	46	46 cannot be expressed as power of 2.	46 cannot be expressed as power of 2.	✓
✓	1024	1024 is a number that can be expressed as power of 2.	1024 is a number that can be expressed as power of 2.	✓

Passed all tests! ✓

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Question **3**

Correct

Marked out of 1.00

Flag question

Write a program in C to find the sum of the series 1 +11 + 111 + 1111 + . . . + n terms (n will be given as input from the user and sum will be the output)

Sample Test Cases

Test Case 1

Input

4

Output

1234

Test Case 2

Input

6

Output

123456

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main()
{
   int n,sum=0,temp=0;
   scanf("%d",&n);
   for(int i=0;i<n;i++)
   {
       temp=temp*10+1;
       sum+=temp;
   }
   printf("%d",sum);
   return 0;
}
```

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REC-CIS

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main()
{
   int n,sum=0,temp=0;
   scanf("%d",&n);
   for(int i=0;i<n;i++)
   {
       temp=temp*10+1;
       sum+=temp;
   }
   printf("%d",sum);
   return 0;
}
```

	Input	Expected	Got	
✓	4	1234	1234	✓
✓	6	123456	123456	✓

Passed all tests! ✓

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