1.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

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 %)

2.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
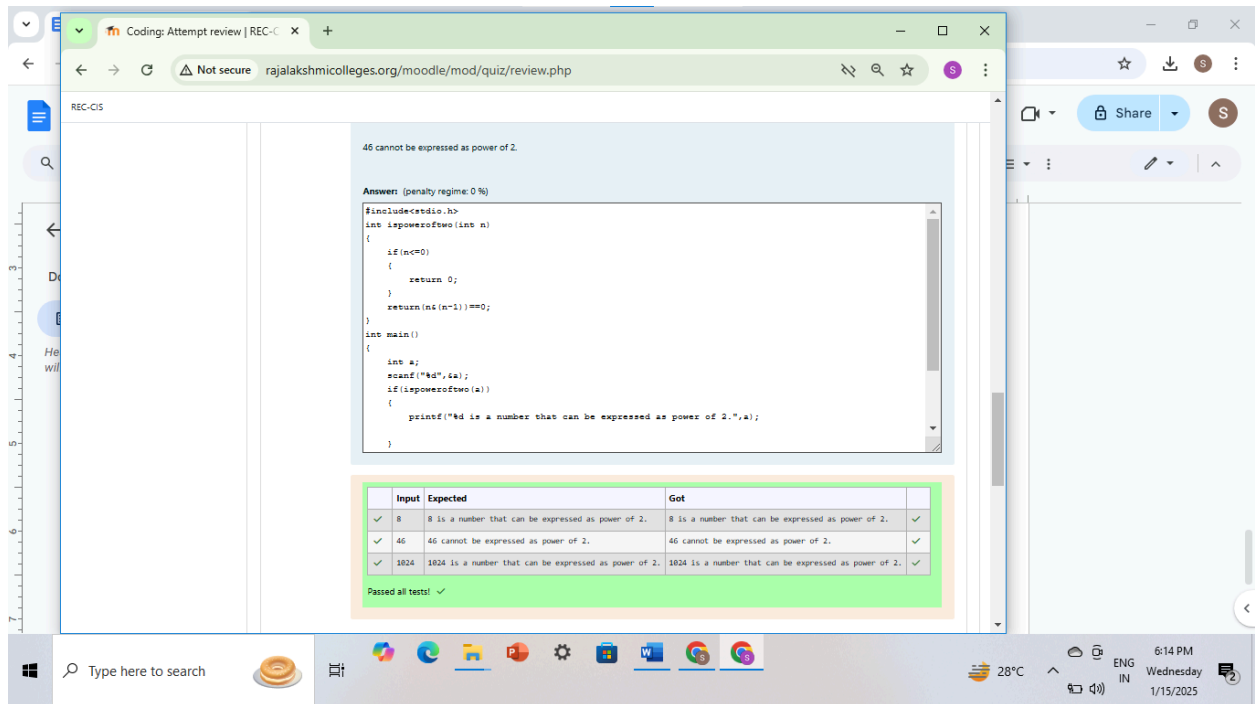
Input

46

Output

46 cannot be expressed as power of 2.

Answer:(penalty regime: 0 %)

46 cannot be expressed as power of 2.

Answer: (penalty regime: 0 %)

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

	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! ✓

3.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 %)

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123456

Answer: (penalty regime: 0 %)

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

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

Passed all tests! ✓

Save the state of the flags

Finish review

4.