

Problem Statement 5:

Given a binary number A , count the number of 1's in the given number using *recursion*.

You have to use the following function prototype:

int countOnes(char A[])

Input :

First line specifies t, the number of test cases. Next t lines consists of a single binary number A.

Output:

For each test case print the number of ones present in the binary number.

Constraints:

$1 \leq t \leq 100$

$1 \leq \text{length of A} \leq 1000$

Sample Input:

4

100

1111

1001

11111

Sample Output:

1

4

2

5