Check String  
  
Zen has a string of length N containing characters 0,1, #.   
He wants to check for the smallest substring which satisfies the following conditions:   
1) Has a length of at least 2.   
2) "#" occurs strictly more than "0" and "1".   
Find the length of the smallest such substring.  
  
Note  
A string a is a substring of a string b if a can be obtained from b by deletion of several (possibly, zero, or all) characters from the beginning and several (possibly, zero or all) characters from the end.  
  
Function Description  
In the provided code snippet, implement the provided string\_check(...) method to find the length of the smallest such substring.  
You can write your code in the space below the phrase “WRITE YOUR LOGIC HERE”.   
There will be multiple test cases running so the Input and Output should match exactly as provided.  
  
  
Input Format  
The first line contains an integer N, denoting the total number of test cases.  
For each test case:  
The first line of each test case contains an integer arr\_size denoting the length of the string.   
Next line contains a string of length arr\_size.  
  
Sample Input  
2  
2  
##  
5  
10#00  
  
Constraints  
1≤ N ≤ 1000  
  
Output Format  
Print the length of such substring if found, else print -1.  
  
Sample Output  
2  
-1  
  
Explanation  
In the first string, ## occurs twice and no other character is present. Hence, the answer is 2.  
In the second test case, there exists no substring which satisfies the above-given conditions i.e. the number of # is not greater than the number of "0" and "1". Hence, print -1.  
Hence the output is  
2  
-1