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def is_boring(substring):
    return len(set(substring)) == 1

def find_longest_boring_substring(S):
    N = len(S)
    longest_boring_length = 0

    for i in range(N):
        for j in range(i+1, N+1):
            substring = S[i:j]

            if is_boring(substring) and S.count(substring) > 1:
                longest_boring_length = max(longest_boring_length,
len(substring))

    return longest_boring_length

T = int(input())

for _ in range(T):
    N = int(input())
    S = input()

    longest_boring_length = find_longest_boring_substring(S)

    print(longest_boring_length)
```