Bob has arranged NN boxes in a straight line. Each box has a Latin Character (′a′−′z′)(′a′−′z′) written on it. He wants to chain 2626 boxes in such a way that the chain starts from box with alphabet ′a′′a′ and contains all Latin Characters **exactly once** in increasing lexicographic order, ending at ′z′′z′. In other words, the chain must form the following sequence:   
′abcdefghijklmnopqrstuvwxyz′′abcdefghijklmnopqrstuvwxyz′

To join a box bibi and bjbj with chain, the length of the chain to be used is |i−j||i−j|.   
Help Bob to **minimize the total length** of the chain used to make the desired sequence.

**Input Format:**  
First line of input contains of a single integer TT - the number of testcases.  
Each testcase consists of a single line, which contains a string made up of lowercase Latin Characters - ′a′′a′ to ′z′′z′. The string may have one or more occurrences of each character.

**Output Format:**  
For each testcase, print a single integer - the minimum length of chain required to make the required sequence.

**Input Constraints:**  
1≤T≤101≤T≤10   
26≤|S|≤10626≤|S|≤106  
All 26 characters ('a' - 'z') are present in SS at least once.

**SAMPLE INPUT**

2

abcdefghijklmnopqrstuvwxyz

ceaabcdefghijklmnopqrstuvwxyz

**SAMPLE OUTPUT**

25

25

**Explanation**

Testcase 1:  
There is only one way to connect the chain for this sequence. The chain starts from S0S0, then connects to S1S1, then S2S2, ... , S25S25, which creates the sequence ′abcdefghijklmnopqrstuvwxyz′′abcdefghijklmnopqrstuvwxyz′. Hence, the answer for testcase 1 is 2525 as the total length of the chain used is:  
(b0−>b1)+(b1−>b2)+...+(b24−>b25)=|0−1|+|1−2|+...+|24−25|=1+1+...+1=25.(b0−>b1)+(b1−>b2)+...+(b24−>b25)=|0−1|+|1−2|+...+|24−25|=1+1+...+1=25.

Testcase 2:  
There are several chain sequences that can possibly be made from the given sequence.  
A few of them are:  
1. S2−>S4−>S0−>S6−>S7−>S8−>...−>S25S2−>S4−>S0−>S6−>S7−>S8−>...−>S25   
2. S3−>S4−>S5−>S6−>...−>S25S3−>S4−>S5−>S6−>...−>S25   
Among the possible chain sequences, the sequence 2. listed above provides the minimum length of chain used.