

# Brain Power

Input file:            **standard input**  
Output file:           **standard output**  
Time limit:            1 second  
Memory limit:         1024 megabytes

You are given a string  $s$  consisting of lowercase English letters. Your task is to split  $s$  into a sequence of non-empty **substrings** such that no two adjacent substrings in the sequence are **anagrams** of each other. (Two strings are considered anagrams if they contain the same characters with the same frequencies.) Among all such valid splits, you must maximize the number of substrings.

## Input

The first line of the input contains a single integer  $T$ , the number of test cases.

The following  $T$  lines each describe a test case. Each line contains a single string  $s$  consisting of lowercase English letters.

## Output

For each test case, print a single integer on a new line: the maximum possible number of substrings in a valid split.

## Scoring

- $1 \leq T \leq 10^5$
- $1 \leq |s| \leq 10^5$  for each test case.
- The total length of all strings  $s$  over all test cases does not exceed  $10^5$ .

## Examples

standard input	standard output
5 kaist rrunnn iiccppcc moockk connttest	5 4 6 5 8
8 a bb ccc dddd eeee fffff ggggggg hhhhhhhh	1 1 2 3 3 4 5 5
4 brainpowerletthebasskick ooooooooooooaaaeaaiau jooooooooooooooooaeoaaaua eeeeeeeeeeeeaaaeiea	22 15 17 15