Problem F FEWEST FLOPS

File name: F.{java,c,cpp}

A common way to uniquely encode a string is by replacing its consecutive repeating characters (or "chunks") by the number of times the character occurs followed by the character itself. For example, the string "aabbbaabaaaa" may be encoded as "2a3b2a1b4a". (Note for this problem even a single character "b" is replaced by "Ib".)

Suppose we have a string S and a number k such that k divides the length of S. Let S_1 be the substring of S from 1 to k, S_2 be the substring of S from k + 1 to 2k, and so on. We wish to rearrange the characters of each block S_i independently so that the concatenation of those permutations S'has as few chunks of the same character as possible. Output the fewest number of chunks.

For example, let S be "uuvuwwuv" and k be 4. Then S_1 is "uuvu" and has three chunks, but may be rearranged to "uuuv" which has two chunks. Similarly, S_2 may be rearranged to "vuww". Then S', or S_1S_2 , is "uuuvvuww" which is 4 chunks, indeed the minimum number of chunks.

Program Input

The input begins with a line containing t ($1 \le t \le 100$), the number of test cases. The following t lines contain an integer k and a string S made of no more than 1000 lowercase English alphabet letters. It is guaranteed that *k* will divide the length of *S*.

Program Output

For each test case, output a single line containing the minimum number of chunks after we rearrange S as described above.

Sample Input & Output

INPUT	OUTPUT
2	8
5 helloworld	10
7 thefewestflops	