15/11/2017 HackerRank



Ashton and String **■**



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Ashton appeared for a job interview and is asked the following question. Arrange all the distinct substrings of a given string in lexicographical order and concatenate them. Print the K^{th} character of the concatenated string. It is assured that given value of K will be valid i.e. there will be a K^{th} character. Can you help Ashton out with this?

Note We have distinct substrings here, i.e. if string is aa, it's distinct substrings are a and aa.

Input Format

First line will contain a number $oldsymbol{T}$ i.e. number of test cases.

First line of each test case will contain a string containing characters (a-z) and second line will contain a number K.

Constraints

 $1 \le T \le 5$

 $1 \le length \le 10^5$

K will be an appropriate integer.

Output Format

Print K^{th} character (the string is 1 indexed)

Sample Input

1 dbac

Sample Output

C

Explanation

The substrings when arranged in lexicographic order are as follows

On concatenating them, we get

aacbbabaccddbdbadbac

The third character in this string is c and hence the answer.

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Submissions: 2301
                                                                                                                    Max Score:100
                                                                                                                    Difficulty: Advanced
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                                                                                                                         Suffix Array
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  Current Buffer (saved locally, editable) & 🗸 🖸
                                                                                                     Java 7
                                                                                                                                          \Diamond
 1 ▼ import java.io.*;
 2 import java.util.*;
    import java.text.*;
    import java.math.*;
    import java.util.regex.*;
 7 ▼ public class Solution {
 8
 9 ▼
          public static void main(String[] args) {
              /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
10 ▼
11
    }
12
                                                                                                                                 Line: 1 Col: 1
                         Test against custom input
                                                                                                                    Run Code
                                                                                                                                  Submit Code
1 Upload Code as File
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