

All Tracks > Algorithms > Sorting > Problem





Tag(s): Algorithms, Easy, Sorting, Sorting

PROBLEM

EDITORIAL

MY SUBMISSIONS

Monk loves to play games. On his birthday, his friend gifted him a string S. Monk and his friend started playing a new game called as Suffix Game. In Suffix Game, Monk's friend will ask him lexicographically k^{th} smallest suffix of the string S. Monk wants to eat the cake first so he asked you to play the game.

Input Format:

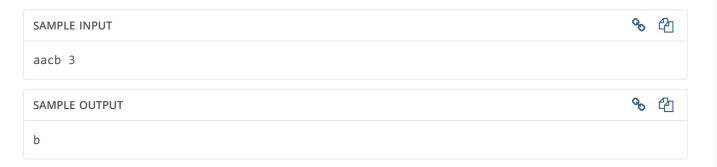
First line contains a string S ($1 \le |S| \le 25$) and an integer k ($1 \le k \le |S|$).

Output Format:

Print the lexicographically k^{th} smallest suffix of the string S.

Note:

Those who are not familiar with suffix and lexicographical order, can read about it from https://en.wikipedia.org/wiki/Suffix and https://en.wikipedia.org/wiki/Lexicographical_order.



Explanation

All the suffices of the string are:

aacb

acb

cb

b

After sorting the order of the suffices will be:

aacb

acb

b

cb

 3^{rd} smallest suffix will be b.

Time Limit: 1.0 sec(s) for each input file.

Memory Limit: 256 MB

?

```
Marking Scheme: Marks are awarded when all the testcases pass.

Allowed Languages: Bash, C, C++, C++14, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Julia, Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Swift, Swift-4.1, TypeScript, Visual Basic
```

CODE EDITOR

```
Enter your code or Upload your code as file.
                                                           Save
                                                                   C++14 (g++ 5.4.0)
 7
      int main(){
 8
           string str;
 9
           int k;
10
           cin>>str>>k;
11
           int length = str.length();
12
           string suff[length];
13
14
           // Generating suffices (string ending with this)
15
           for(int i=0;i<length;i++){</pre>
16
                string temp;
17
                for(int j=i;j<length;j++){</pre>
18
                     temp += str[j];
19
                }
20
                suff[i] = temp;
21
           }
22
           for(int i=0;i<length;i++){</pre>
23
                for(int j=0;j<length-i-1;j++){
24
25
                     if(suff[j] > suff[j+1]){
                          string swap = suff[j];
26
27
                          suff[j] = suff[j+1];
28
                          suff[j+1] = swap;
29
                     }
30
                }
31
           }
32
                                                                                                     7:9 vscode
☑ Provide custom input
  COMPILE & TEST
                        SUBMIT
 Submission ID: 40267759 / 1 second ago
    RESULT: Accepted
    Score
                     Time (sec)
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•	0.102555	64	10	Ø	Ø	
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•	0.102704	64	10	Ø	Φ	\land
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•	0.101746	64	10	Ø	Φ	(1)
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