




Java Substring Comparisons

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We define the following terms:

- [Lexicographical Order](#), also known as *alphabetic* or *dictionary* order, orders characters as follows:

$$A < B < \dots < Y < Z < a < b < \dots < y < z$$

For example, `ball < cat`, `dog < dorm`, `Happy < happy`, `Zoo < ball`.

- A [substring](#) of a string is a contiguous block of characters in the string. For example, the substrings of `abc` are `a`, `b`, `c`, `ab`, `bc`, and `abc`.

Given a string, s , and an integer, k , complete the function so that it finds the lexicographically *smallest* and *largest* substrings of length k .

Input Format

The first line contains a string denoting s .

The second line contains an integer denoting k .

Constraints

- $1 \leq |s| \leq 1000$
- s consists of English alphabetic letters only (i.e., `[a-zA-Z]`).

Output Format

Return the respective lexicographically smallest and largest substrings as a single newline-separated string.

Sample Input 0

```
welcometojava
3
```

Sample Output 0

```
ava
wel
```

Explanation 0

String $s = \text{"welcometojava"}$ has the following lexicographically-ordered substrings of length $k = 3$:

`["ava", "com", "elc", "eto", "jav", "lco", "met", "oja", "ome", "toj", "wel"]`

We then return the first (lexicographically smallest) substring and the last (lexicographically largest) substring as two newline-separated values (i.e., `ava\nwel`).

The stub code in the editor then prints `ava` as our first line of output and `wel` as our second line of output.

Current Buffer (saved locally, editable) 🔗 ↺

Java 7



```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8
9     public static String getSmallestAndLargest(String s, int k) {
10         String smallest = "";
11         String largest = "";
12
13         // Complete the function
14         // 'smallest' must be the lexicographically smallest substring of length 'k'
15         // 'largest' must be the lexicographically largest substring of length 'k'
16
17         return smallest + "\n" + largest;
18     }
19
20     public static void main(String[] args) {
21         Scanner scan = new Scanner(System.in);
22         String s = scan.next();
23         int k = scan.nextInt();
24         scan.close();
25
26         System.out.println(getSmallestAndLargest(s, k));
27     }
28 }
29
```

Line: 1 Col: 1

[Upload Code as File](#) ☐ Test against custom input

Run Code

Submit Code

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