

Problem

The current selected programming language is **Java**. We emphasize the submission of a fully working code over partially correct but efficient code. Once **submitted**, you cannot review this problem again. You can use `System.out.println()` to debug your code. The `System.out.println()` may not work in case of syntax/runtime error. The version of **JDK** being used is **1.8**.

Michelle has created a word game for her students. The word game begins with Michelle writing a string and a number, K, on the board. The students have to find the substrings of size K with K distinct characters.

Write an algorithm to help the students find the correct answer. If the given string does not have K distinct characters then output an empty list.

Input

The input to the function/method consists of two arguments - `inputStr`, representing the string written by the teacher; `num`, an integer representing the number, K, written by the teacher on the board.

```

3 import java.util.*;
4 // DEFINE ANY CLASS AND METHOD NEEDED
5 // CLASS BEGINS, THIS CLASS IS REQUIRED
6 public class Solution
7 {
8     // METHOD SIGNATURE BEGINS, THIS METHOD IS REQUIRED
9     public List<String> subStringsKDist(String inputStr, int num)
10    {
11        // WRITE YOUR CODE HERE
12        Set<String> result = new HashSet<String>();
13        int size = inputStr.length();
14        for(int i=0; i<=(size-num);i++){
15            String tempStr = inputStr.substring(i, i+num);
16            if(!repeatedCharacters(tempStr)){
17                result.add(tempStr);
18            }
19        }
20        return new ArrayList<String>(result);
21    }

```



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Note

The input string consists of only lowercase letters of the English alphabet. Substrings are not necessarily distinct.

Examples

Input:
 inputStr = awaglnagawunagkwagl
 num = 4

Output:
 {wagl, aglk, glkn, lkna, knag, gawu, awun, wuna, unag, nagw, agwk, kwag}

Explanation:
 Substrings in order are: wagl, aglk, glkn, lkna, knag, gawu, awun, wuna, unag, nagw, agwk, kwag, wagl
 "wagl" is repeated twice, but is included in the output once.

Reset

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Problem Test cases **Output**

Returned:
 abc bcd

TestCase 2

Status:
 Correct
 Expected:
 aglk agwk awun gawu glkn knag kwag lkna nagw unag wagl wuna

Returned:
 aglk agwk awun gawu glkn knag kwag lkna nagw unag wagl wuna

The program was also checked on other testcases 15 out of 15 passed.

Java

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