package com.iimtiaz.day\_10;  
  
import java.util.Arrays;  
  
public class SubString {  
 public static void main(String[] args) {  
 String str = "ADOBECODEBANC", n = "ABC";  
 System.*out*.println(new Solution\_3().minWindow(str, n));  
 }  
}  
  
class Solution\_3 {  
 public String minWindow(String s, String t) {  
  
 int startans = 0, endans = 0;  
 int[] arr1 = new int[128];  
 int[] arr2 = new int[128];  
  
 int start = 0, end = 0, min = Integer.*MAX\_VALUE*;  
  
 Arrays.*fill*(arr1, 0);  
 Arrays.*fill*(arr2, 0);  
  
 for (char i : t.toCharArray()) arr2[i]++;  
  
 for (int i = 0; i < s.length(); i++) {  
 arr1[s.charAt(i)]++;  
 while (end <= i && isvalid(arr1, arr2)) {  
 if (min > i - end + 1) {  
 startans = i + 1;  
 endans = end;  
 min = i - end + 1;  
 }  
 arr1[s.charAt(end)]--;  
 end++;  
 }  
 }  
 return s.substring(endans, startans);  
 }  
  
 public boolean isvalid(int[] arr1, int[] arr2) {  
 for (int i = 'A'; i < 128; i++) if (arr1[i] < arr2[i]) return false;  
 return true;  
 }  
  
}