

## Problem 1: Substring-with-concatenation-of-all-words

```

package ishwarchavan.com;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.HashMap;
import java.util.List;

public class SubstringCancatinationOfAllWord{           //class created

    public static ArrayList<Integer> findSubstring(String A, final List<String> B) {
//function created

        int size_word = B.get(0).length();    // Number of a characters of a word in
list L.

        int word_count = B.size();           // Number of words present inside list L.

        int size_l = size_word * word_count;    // Total characters present in list
L.

        ArrayList<Integer> res = new ArrayList<Integer>();    // Resultant vector
which stores indices.
        int n = A.length();

        if (size_l > n)    //condition checking
        {
            return res;
        }

        HashMap<String, Integer> hashMap = new HashMap<String, Integer>();
// Map stores the
words present in list L
// against it's
occurrences inside list L

        for (String word : B)
        {
            hashMap.put(word, hashMap.getOrDefault(word, 0) + 1);
        }

        for (int i = 0; i <= n - size_l; i++)
        {
            HashMap<String, Integer> tempMap = (HashMap<String, Integer>)
hashMap.clone();
            int j = i, count = word_count;

            while (j < i + size_l)    // Traverse the substring
            {

                String word = A.substring(j, j + size_word);    // Extract the word

                if (!hashMap.containsKey(word) || tempMap.get(word) == 0)
//condition checking
                {
                    break;
                }

                // Else decrement the
count of word from hash_map
                else
                {
                    tempMap.put(word, tempMap.get(word) - 1);

```

```

        count--;
    }
    j += size_word;
}

if (count == 0)
{
    res.add(i);
}

}
return res;
}

public static void main(String[] args) { //main program
    String S = "barfoothefoobarman"; //string variable created
    ArrayList<String> L = new ArrayList<>(Arrays.asList("foo", "bar"));
//object created
    ArrayList<Integer> indices = findSubstring(S, L);
    for (Integer i : indices)
    {
        System.out.println(i);
    }
}
}

```

## Problem 2: Insert Position

```

package ishwarchavan.com;
import java.io.*;

public class InsertPosition { //class created

    static int find_index(int[] arr, int n, int K) { //Function to find insert position
of K

        for(int i = 0; i < n; i++) // Traverse the array

            if (arr[i] == K) // If K is found
                return i;

            else if (arr[i] > K)
                return i;

        return n; // If all elements are smaller than K
    }

    public static void main(String[] args) { //main program
        int[] arr = { 1, 3, 5, 6 };
        int n = arr.length;
        int K = 2;

        System.out.println(find_index(arr, n, K)); //calling function
    }
}

```