Qn Link : <https://leetcode.com/problems/find-common-characters/>

class Solution {

private int[] count(String s ){

int len = s.length();

int [] a = new int[26];

for(int i = 0 ; i < len ; i++){

a[s.charAt(i) - 'a']++;

}

return a;

}

private int [] intersection(int []a , int [] b){

for(int i = 0 ; i < 26 ; i++){

a[i] = Math.min(a[i] , b[i]);

}

return a;

}

private List<String> result(int [] a){

List<String> list = new ArrayList<>();

for(int i = 0 ; i < a.length ; i++){

if(a[i] != 0){

String s = "";

s += (char) ('a' + i);

while(a[i] != 0){

list.add(s);

a[i]--;

}

}

}

return list;

}

public List<String> commonChars(String[] words) {

int [] arr = count(words[0]);

int len = words.length;

for(int i = 1 ; i < len ; i++){

arr = intersection(arr , count(words[i]));

}

return result(arr);

}

}