

## 49. Group Anagrams

Description

Hints

Submissions

Discuss

Solution

Pick One

Given an array of strings, group anagrams together.

**Example:**

```
Input: ["eat", "tea", "tan", "ate", "nat", "bat"],
Output:
[
  ["ate","eat","tea"],
  ["nat","tan"],
  ["bat"]
]
```

**Note:**

- All inputs will be in lowercase.
- The order of your output does not matter.

```
public class L49 {

    public List<List<String>> groupAnagrams(String [] strs) {
        HashMap<String, List<String>> map = new HashMap<String, List<String>>();
        for (String s : strs) {
            char [] str2char = s.toCharArray();
            Arrays.sort(str2char);
            String sortedStr = String.valueOf(str2char);
            if(map.containsKey(sortedStr)){
                map.get(sortedStr).add(s);
            }else {
                ArrayList<String> tmp = new ArrayList<String>();
                tmp.add(s);
                map.put(sortedStr, tmp);
            }
        }
        List<List<String>> result = new ArrayList<List<String>>();
        for (List<String> list : map.values()) {
            Collections.sort(list); //这个是对数组中的元素按照字典排序
            result.add(list);
        }
        return result;
    }
}
```