

# 049. Group Anagrams

## 049 Group Anagrams

- Hash Table+string

### Description

Given an array of strings, group anagrams together.

For example, given: ["eat", "tea", "tan", "ate", "nat", "bat"],

Return:

```
[
  ["ate", "eat","tea"],
  ["nat","tan"],
  ["bat"]
]
```

**Note:** All inputs will be in lower-case.

### 1. Thought line

### 2. Hash Table+string

```
class Solution {
public:
    vector<vector<string>> groupAnagrams(vector<string>& strs) {
        map<string, vector<string>> imap;
        vector<vector<string>> result;
        for (int i = 0; i<=strs.size()-1; ++i){
            string temp = strs[i];
            sort(temp.begin(),temp.end());
            imap[temp].push_back(strs[i]);
        }

        for (auto it = imap.begin(); it!=imap.end(); ++it){
            string index = it->first;
            result.push_back(imap[index]);
        }
        return result;
    }
};
```