049. Group Anagrams

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- **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

```cpp
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;
    }
};
```