1. Group Anagrams

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.

class Solution {  
public:  
 vector<vector<string>> groupAnagrams(vector<string>& strs) {  
 unordered\_map<string, int>mp;  
 vector<vector<string>>ans;  
 for(int i = 0; i < strs.size(); ++i){  
 string key = strs[i];  
 sort(key.begin(), key.end());  
 if(mp[key]){  
 ans[mp[key] - 1].push\_back(strs[i]);  
 }else{  
 mp[key] = ans.size() + 1;  
 ans.push\_back(vector<string>{strs[i]});  
 }  
 }  
 return ans;  
 }  
};