Java代码

```
class MagicDictionary {
    TrieNode root;
   public MagicDictionary() {root = new TrieNode(); }
    public void buildDict(String[] dict) {
        for (String word : dict) {
            TrieNode temp = root;
            for (int i = 0; i < word.length();; <math>i++) {
                char c = word.charAt(i);
                if (temp.child[c-'a'] == null) temp.child[c-
'a'] = new TrieNode();
                temp = temp.child[c-'a'];
            temp.isWord = true;
       }
    }
   public boolean search(String word) {
       TrieNode presentNode = root;
        for (int i = 0; i < word.length(); i++) {// 遍历待搜索字符
            char c = word.charAt(i);
            for (int j = 0; j < 26; j++) {// 遍历当前结点所有子结点
                if ((char)
(j+'a') == c | presentNode.child[j] == null) continue;
                if (partSearch(presentNode.child[j],word,i+1)) return true;//
如果剩余字符存在当前子结点为root的Trie中,返回true
            if(presentNode.child[c-'a'] == null) return false;
            presentNode = presentNode.child[c-'a'];
       return false;
    public boolean partSearch(TrieNode temp, String word, int index) {
        for (int i = index; i < word.length(); i++) {</pre>
            char c = word.charAt(i);
            if (temp.child[c-'a'] == null) return false;
            temp = temp.child[c-'a'];
       return temp.isWord;
    }
}
```

最优解法

Java代码

```
class MagicDictionary {
   Map<Integer, ArrayList<String>> wordMap;
    public MagicDictionary() {
       wordMap = new HashMap();
    public void buildDict(String[] words) {
        for (String word : words) {
           // 判断map中是否包含key,如果不包含,则将mapFunction(key)的值加入map
中 java8新特性
           wordMap.computeIfAbsent(word.length(), x -
> new ArrayList()).add(word);
    public boolean search(String word) {
        if (!wordMap.containsKey(word.length())) return false;// 根据词的长度先判
断
        for (String possibleWord: wordMap.get(word.length())) {
           int wordDiff=countWordDiff(word,possibleWord);// 换多少个字母才能将
word换成possibleWord
            if (wordDiff == 1) return true;
       return false;
    private int countWordDiff(String word1,String word2){
        int diff = 0;
        for (int i = 0; i < word1.length(); ++i) {</pre>
            if (word1.charAt(i) != word2.charAt(i)) {
               if (++diff > 1) break;
       return diff;
    }
}
```

C++代码

```
class MagicDictionary {
public:
    map<int,vector<string>> f;
    /** Initialize your data structure here. */
    MagicDictionary() {
```

```
void buildDict(vector<string> dictionary) {
        for(int i=0;i<dictionary.size();i++){</pre>
            f[dictionary[i].size()].push back(dictionary[i]);
        }
    }
    bool search(string searchWord) {
        int wordLen=searchWord.size();
        for(auto &&[len,vec]:f){
            if(wordLen==len){
                vector<int> v(wordLen);
                 for(auto &vecEntry:vec){
                     int cnt=0;
                     for(int i=0;i<wordLen;i++){</pre>
                         if(searchWord[i]!=vecEntry[i]){
                             cnt++;
                         }
                     if(cnt==1) return true;
                 }
            }
        return false;
    }
};
```

Python代码