

字典树

Trie

Code (数组版) :

```
1  struct Trie{
2      int ch[26], cntEnd; // cntEnd can be changed according to different problem
3  }tr[NODEN];
4  #define root 0
5  int id;
6  void insertTrie(char s[]){
7      int len = (int)strlen(s);
8      int now = root;
9      for(int i = 0; i < len; i++){
10         if(!tr[now].ch[s[i]-'a'])
11             tr[now].ch[s[i]-'a'] = ++id;
12         now = tr[now].ch[s[i]-'a'];
13     }
14     tr[now].cntEnd++;
15 }
```

Code (指针版) :

```
1  struct Trie{
2      bool isEnd;
3      Trie *ch[26];
4      Trie(){
5          isEnd = false;
6          for(int i = 0; i < 26; i++)
7              ch[i] = nullptr;
8      }
9  };
10 Trie *rt;
11 void insertTrie(string s){
12     int len = s.size();
13     Trie *now = rt;
14     for(int i = 0; i < len; i++){
15         if(now -> ch[s[i]-'a'] == nullptr)
16             now -> ch[s[i]-'a'] = new Trie;
17         now = now -> ch[s[i]-'a'];
18     }
19     now -> isEnd = true;
20 }
```