

# 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 }
```