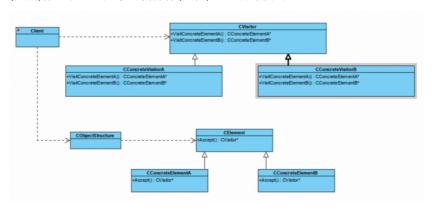
定义:表示一个作用于某对象结构中各元素的操作. 使得可以在不改变(稳定)各元素的类的前提下定义(扩展)作用于这些元素的新操作(变化)---<设计模式>GoF



```
#include <iostream>
2 #include <list>
3 using namespace std;
4 class Classroom;
5 class Playground;
6 class Visitor{ //角色=visitor类
7 public:
    virtual ~Visitor(){}
    virtual void Visit(Classroom *classroom) = 0;
virtual void Visit(Playground *playground) = 0;
11 };
12 class Student : public Visitor{
13 public:
void Visit(Classroom *classroom){
        cout << "Student Study in classroom" << endl;</pre>
15
void Visit(Playground *playground){
          cout << "Student play in playground" << endl;</pre>
18
19
20 };
21 class Teacher: public Visitor{
22 public:
void Visit(Classroom *classroom){
         cout << "Teacher teach in classroom" << endl;</pre>
24
    void Visit(Playground *playground){
26
          cout << "Teacher watch in playground" << endl;</pre>
29 };
30 class Place{
31 public:
virtual ~Place(){}
virtual void Accept(Visitor *v) = 0;
35 class Classroom : public Place{
36 public:
```

```
void Accept(Visitor *v){
38
         v->Visit(this);
39 }
40 };
41 class Playground: public Place{
42 public:
void Accept(Visitor *v){
      v->Visit(this);
45 }
46 };
47 class School{
48 public:
void Add(Place* place){
       listPlace.push_back(place);
50
51
    void Remove(Place* place){
        listPlace.remove(place);
5.3
54 }
void Accept(Visitor *v){
         list<Place*>::iterator iter = listPlace.begin();
56
          for(;iter != listPlace.end();iter++){
             (*iter)->Accept(v);
58
59
61 private:
62 list<Place*> listPlace;
63 };
64 int main(){
School *pSchool = new School;
Place *pclassroom = new Classroom;
    Place *pplaygroud = new Playground;
67
      Visitor *pStu = new Student();
68
      Visitor *pTeacher = new Teacher();
69
70
   pSchool->Add(pclassroom);
   pSchool->Add(pplaygroud);
71
    pSchool->Accept(pStu);
72
      pSchool->Accept(pTeacher);
74
      delete pTeacher;
   delete pStu;
75
   delete pplaygroud;
76
77      delete pclassroom;
      delete pSchool;
78
      return 0;
79
80 }
```

```
weishichundembp:DesignPattnsStudy weishichun$ g++ -o Visitor_1.out Visitor_1.cpp weishichundembp:DesignPattnsStudy weishichun$ ./Visitor_1.out |
|Student Study in classroom |
|Student play in playground |
|Teacher teach in classroom |
|Teacher watch in playground |
|weishichundembp:DesignPattnsStudy weishichun$ |
```