策略模式定义了算法家族,分别封装起来,让它们之间可以相互替换,此模式让算法的变化,不会影响道使用算法的客户。

```
11 #ifndef T2_20190109_hpp
12 #define T2_20190109_hpp
14 #include <iostream>
16 using namespace std;
19 class Strategy{
20 public:
      Strategy(){}
      virtual void AlgorithmInterface() = 0;
24 };
27 class ConcreteStrategyA : public Strategy{
28 public:
      ConcreteStrategyA():Strategy(){}
      void AlgorithmInterface(){
          cout << "算法A:Add的实现! " << endl;
34 };
37 class ConcreteStrategyB : public Strategy{
38 public:
      ConcreteStrategyB():Strategy(){}
      void AlgorithmInterface(){
```

```
cout << "算法B:Sub的实现! " << endl;
44 };
47 class ConcreteStrategyC: public Strategy{
48 public:
      ConcreteStrategyC():Strategy(){}
      void AlgorithmInterface(){
          cout << "算法C:Mul的实现! " << endl;
54 };
57 class ConcreteStrategyD : public Strategy{
58 public:
      ConcreteStrategyD():Strategy(){}
      void AlgorithmInterface(){
          cout << "算法D:Div的实现! " << endl;
64 };
69 class Context
70 {
71 public:
      enum EMOperate {Add, Sub, Mul, Div};
      Context(EMOperate op){
          switch (op) {
              case Add: m_p0bj = new ConcreteStrategyA();
                                                             break;
              case Sub: m_p0bj = new ConcreteStrategyB();
                                                              break;
              case Mul: m_p0bj = new ConcreteStrategyC();
                                                              break;
              case Div:
                         m_p0bj = new ConcreteStrategyD();
                                                             break;
              default:
                          break;
      }
      void ContextInterface()
```

```
{
           m_p0bj->AlgorithmInterface();
       }
       Strategy* m_p0bj;
93 };
95 #endif /* T2_20190109_hpp */
97 int main(int argc, const char * argv[]) {
            Context context1(Context::Add);
           context1.ContextInterface();
           Context context2(Context::Sub);
            context2.ContextInterface();
           Context context3(Context::Mul);
           context3.ContextInterface();
           Context context4(Context::Div);
            context4.ContextInterface();
       return 0;
112 }
```