```
class StateMachine:public CompositeState {
                                                                  void StateMachine::setIniDefaultState(){
private:
                                                                    this->context->Initialize();
 Stopped* stopped;
                                                                    this->activeSubState = stopped;
 Operating* operating;
                                                                    this->activeSubState->entry();
public:
 bool transition (Stopped* state, On* event);
 bool transition (Operating* state, Off* event
                                                                  bool StateMachine::transition(
 void setIniDefaultState();}
                                                                           Stopped* state, On* event) {
class Stopped: public State {
                                                                   if(this->context->quard(event)){
private:
                                            StateMachine
  StateMachine* ancestor;
                                                                    this->activeSubState->exit();
public:
                                                                    this->context->Enable(event);
                                   /Initialize
                                                       Operating
  virtual bool processEvent(
                                                                    this->activeSubState = this->operating;
                                                     /entry Prepare
                                          On[x == 0]
          On* event) {
                                Stopped
                                                                    this->activeSubState->entry();
                                                      /exit Disable
    return this->ancestor
                                           Enable
                                                                    return true;}
     ->transition(this, event)
                                                           Off
Off
                                                                   return false;
class Operating: public State
private:
                                                                  bool StateMachine::transition(
  StateMachine* ancestor;
                                                                      Operating* state, Off* event) {
public:
  virtual bool processEvent(Off* event) {
                                                                    this->activeSubState->exit();
    return this->ancestor->transition(this, event);
                                                                    //no action defined
                                                                    this->activeSubState = NULL;
  virtual void onEntryAction() {
                                                                    return true;
    this->context->Prepare();}
  virtual void onExitAction() {
    this->context->Disable();}}
```