```
class StateMachine:public CompositeState {
private:
                                                                                        void StateMachine::setIniDefaultState(){
 Stopped* stopped;
                                                                                          this->context->Initialize();
 Operating* operating;
                                                                                          this->activeSubState = stopped;
public:
                                                                                          this->activeSubState->entry();
 bool transition(Stopped* state, On* event);
bool transition(Operating* state, Off* event);
 void setIniDefaultState();}
                                                                                         StateMachine::transition(
class Stopped: public State {
                                                           StateMachine
                                                                                                Stopped* state, On* event) {
private:
                                                                                         if(this->context->guard(event)){
 StateMachine* ancestor;
                                                                                          this->activeSubState->exit();
public:
                                            /Initialize
                                                                         Operating
                                                                                          this->context->Enable(event);
 virtual bool processEvent(On* event)
   return this->ancestor
                                                                                          this->activeSubState = this->operating;
                                                                        /entry Prepare
               ->transition(this, event);
                                                   On[x == 0]/Enable
                                                                                          this->activeSubState->entry();
                                          Stopped
                                                                        /exit Disable
                                                                                          return true;}
                                                                                         return false:
                                                                             Off

•
class Operating: public State {
private:
 StateMachine* ancestor;
                                                                                         oool StateMachine::transition(
public:
                                                                                            Operating* state, Off* event) {
 virtual bool processEvent(Off* event) {
                                                                                          this->activeSubState->exit();
    return this->ancestor
                                                                                          //no action defined
               ->transition(this, event);
                                                                                          this->activeSubState = NULL;
                                                                                          return true;
 virtual void onEntryAction() {
    this->context->Prepare();)
  virtual void onExitAction() {
    this->context->Disable();)
```