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