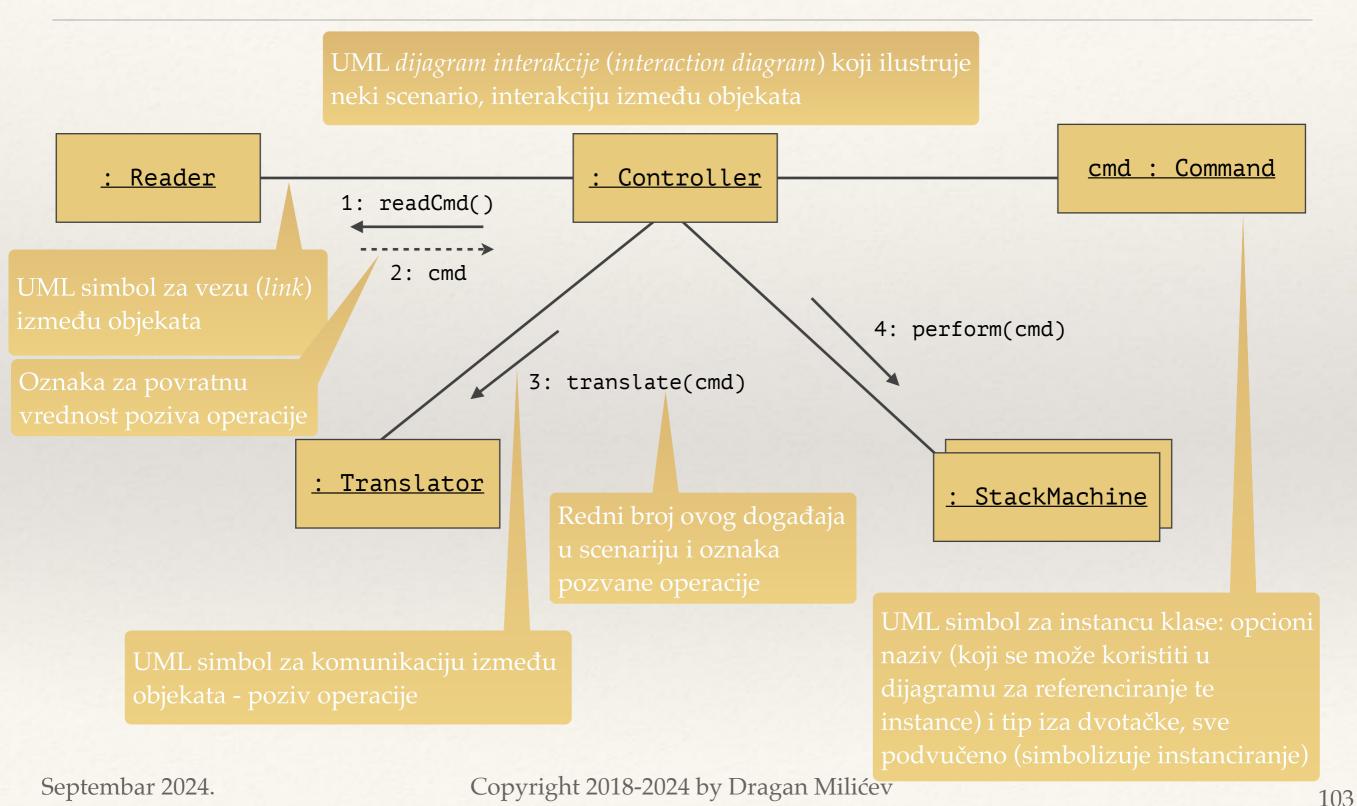
Algoritamska dekompozicija



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```
enum OpCode { add, sub, ... };
class Command {
public:
 Command (int out, string cmd);
 OpCode getOpCode ();
        getOut ();
 int
private:
  string in;
  OpCode code;
  int out:
class Controller {
public:
  void main ();
private:
  Reader* myReader;
  Translator* myReader;
  StackMachine* mySMs[...];
};
void Controller::main () {
  Command* cmd = myReader->read();
  while (cmd!=nullptr) {
    myTranslator->translate(cmd);
    int out = cmd->getOut();
    mySMs[out]->perform(cmd);
```

```
class Reader {
public:
  Command* read ();
};
class Translator {
public:
 void translate (Command*);
};
class StackMachine {
public:
  void perform (Command*);
protected:
 void push (int);
 int pop ();
private:
  int stack[MaxStackSize];
 unsigned sp;
};
void StackMachine::perform (Command* cmd) {
  switch (cmd->getOpCode()) {
    case add: {
      int op1 = this->pop();
      int op2 = this->pop();
     this->push(op1+op2);
      break;
   case sub: ...
```