Pre-Processing Phase

converting String →
 LinkedList
 converting a String
 command into ICommand

Two parse() functions splits up functionality, but necessary?

Process Phase

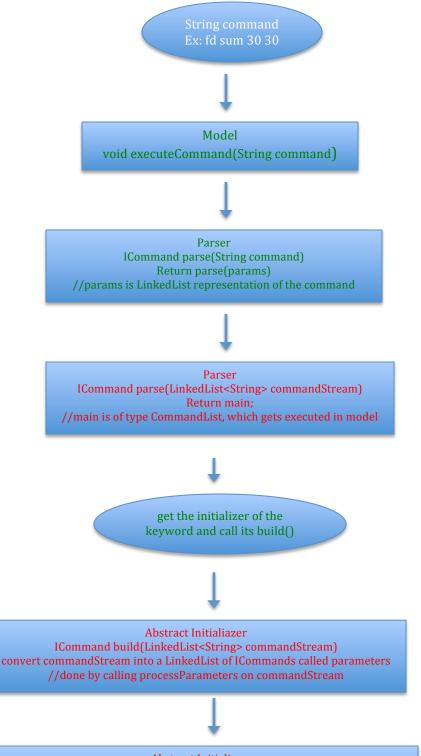
The code is very modularized No huge functions.

ProcessParameters and processParameter are simple functions

parseVariable, parseList parseList, parseNestedFunction Hard because you have pseudo-

myParameters.add(myParser.p
arse(commandStream));

LinkedList implementation of commandStream adds elegance because you can easily take the head of a commandStream and have the rest of the commands



Abstract Initialiazer processParameters (LinkedList<String> commandStream)

iterates numArgs times, calling a processParameter on ComamndStream //process Parameter can parse List, Variable, Nested Function, Constant



Execution Phase

Only tricky part here is knowing how to instantiate your specific ICommand – making sure to pass the appropriate

Execution is simply calling the execute() method.

main's commandList functionality takes care of that.

ICommand instantiate(List<ICommand> Parameters)
returns new Forward object with appropriate parameters
//process Parameter can parse List, Variable, Nested Function, Constant



This Forward command (of type ICommand) goes back to the parser and gets added to main (of type



Once the commands stream is empty and main has added all the processed commandStream elements, model will execute main using it's CommandList execute() method