

Your name: _____

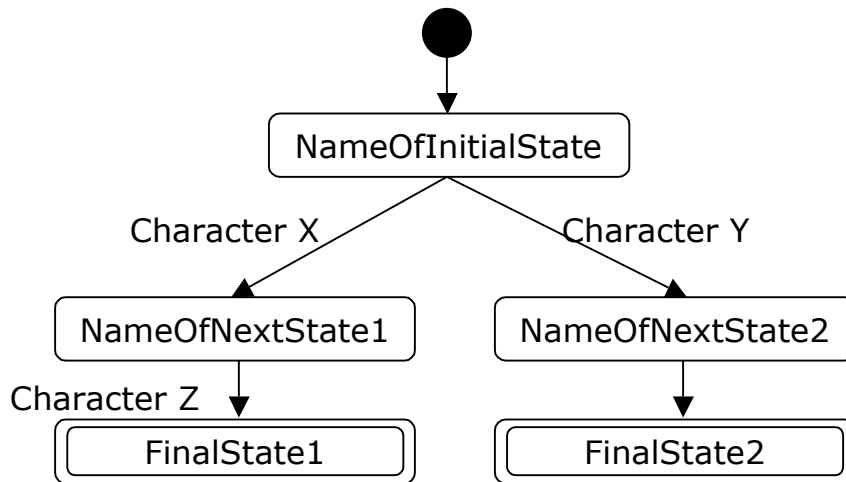
Questions:

1. Time when starting to read this question: _____ h _____ m _____ s
 [Function] Describe in your own words what functionality is implemented in the while loop.
 Time when finished answering this question: _____ h _____ m _____ s

2. Time when starting to read this question: _____ h _____ m _____ s
 [Control Flow] Draw a state chart illustrating the execution of the while-loop of method createMethodPattern in class SearchPattern.

- Draw a node for each state. Use the names of the states as written in the code itself. Differentiate between initial and final states.
- Draw a directed labelled edge (arrow with label X) between states when the scanner shifts from the source-state to the target-state at event X.

Use the following schematic notation:



Time when finished answering this question: _____ h _____ m _____ s

3. Time when starting to read this question: _____ h _____ m _____ s
 [Operations] Describe the characteristics of all the different input compositions which the scanner considers invalid.
 Time when finished answering this question: _____ h _____ m _____ s

4. Time when starting to read this question: _____ h _____ m _____ s
 [Data Flow] Describe briefly when the value of variable parameterTypes is updated.
 Time when finished answering this question: _____ h _____ m _____ s

5. Time when starting to read this question: _____ h _____ m _____ s
 [State] In the first case-branch of the first switch-statement you will find the statement `declaringType += tokenSource + selector;`
 Describe briefly the value of variable declaringType after this statement.
 Time when finished answering this question: _____ h _____ m _____ s

Your name: _____

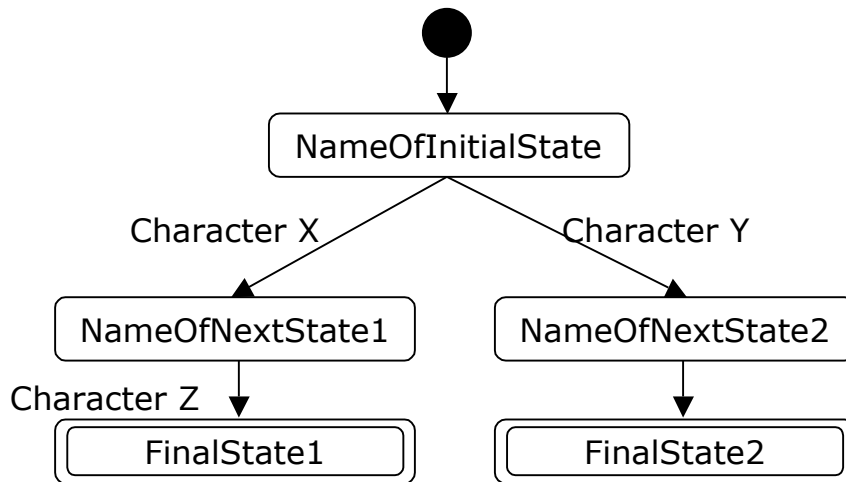
Questions:

6. Time when starting to read this question: _____ h ____m ____s
 [Function] Describe in your own words what functionality is implemented in the while loop.
 Time when finished answering this question: _____ h ____m ____s

7. Time when starting to read this question: _____ h ____m ____s
 [Control Flow] Draw a state chart illustrating the execution of the while-loop of method createMethodPattern in class SearchPattern.

- Draw a node for each state. Use the names of the states as written in the code itself. Differentiate between initial and final states.
- Draw a directed labelled edge (arrow with label X) between states when the scanner shifts from the source-state to the target-state at event X.

Use the following schematic notation:



Time when finished answering this question: _____ h ____m ____s

8. Time when starting to read this question: _____ h ____m ____s
 [Operations] Describe the characteristics of all the different input compositions which the scanner considers invalid.
 Time when finished answering this question: _____ h ____m ____s

9. Time when starting to read this question: _____ h ____m ____s
 [Data Flow] Describe briefly when the value of variable parameterTypes is updated.
 Time when finished answering this question: _____ h ____m ____s

10. Time when starting to read this question: _____ h ____m ____s
 [State] In the first case-branch of the first switch-statement you will find the statement `declaringType += tokenSource + selector;`
 Describe briefly the value of variable `declaringType` after this statement.
 Time when finished answering this question: _____ h ____m ____s