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:

   ![State Chart Diagram]

   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
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:

   NameOfInitialState

   Character X
   ▼
   NameOfNextState1

   Character Y
   ▼
   NameOfNextState2

   Character Z
   ▼
   FinalState1

   ▼
   FinalState2

   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