

Listen
EECS 4315

www.eecs.yorku.ca/course/4315/



```
public interface SearchListener extends JPFListener {  
    void stateAdvanced(Search search);  
    void stateProcessed(Search search);  
    void stateBacktracked(Search search);  
    void statePurged(Search search);  
    void stateStored(Search search);  
    void stateRestored(Search search);  
    void propertyViolated(Search search);  
    void searchStarted(Search search);  
    void searchConstraintHit(Search search);  
    void searchFinished(Search search);  
}
```

Implement a listener which prints the states and transitions visited by the search in the following simple format:

0 -> 1

1 -> 2

0 -> 3

3 -> 4

4 -> 2

Implement a listener which creates a dot file representing the the states and transitions visited by the search.

```
digraph statespace {  
0 -> 1  
1 -> 2  
0 -> 3  
3 -> 4  
4 -> 2  
}
```

Implement a listener which creates a dot file representing the the states and transitions visited by the search. Colour the initial state green and the final states red.

```
digraph statespace {  
0 [fillcolor=green]  
0 -> 1  
1 -> 2  
2 [fillcolor=red]  
0 -> 3  
3 -> 4  
4 -> 2  
}
```

Implement a listener which prints the mnemonics of the bytecode instructions that are executed by JPF.

Implement a listener which prints a method that is invoked most often by JPF and the number of times that it is invoked.