

Branch: master ▾ cs311-project-1 / src / cs311 / project / pkg1 / Cs311Project1.java

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33b63cd 9 minutes ago

1 contributor

48 lines (44 sloc) 1.51 KB

```
1 package cs311.project.pkg1;
2
3 import java.io.FileInputStream;
4 import java.io.FileNotFoundException;
5 import java.util.Scanner;
6
7 /**
8  *
9  * @author Joshua Camacho
10  */
11 public class Cs311Project1 {
12
13     public static void main(String[] args) throws FileNotFoundException {
14         Scanner filein = new Scanner(new FileInputStream("input.txt"));
15         int count=1;
16         while(filein.hasNext()){
17             //initialize Dfsa
18             System.out.println("Finite State Automaton #" + count);
19             count++;
20             Dfsa dfsa = new Dfsa();
21             dfsa.setNumStates(filein.nextLine());
22             dfsa.setFinalStates(filein.nextLine());
23             dfsa.setAlphabet(filein.nextLine());
24             //Set delta function values
25             while(filein.hasNext()){
26                 String next = filein.nextLine();
27                 if(next.length() == 0){
28                     dfsa.dump();
29                     System.out.printf("%40s %10s\n", "ε", dfsa.evalString(next));
30                     break;
31                 }
32                 if(next.charAt(0) == '(') dfsa.deltaPush(next);
33                 else{
34                     dfsa.dump();
35                     System.out.printf("%40s %10s\n", next, dfsa.evalString(next));
36                     break;
37                 }
38             }
39             //Check strings
40             while(filein.hasNext()){
41                 String next = filein.nextLine();
42                 if(next.equals("////")) break;
43                 System.out.printf("%40s %10s\n", next, dfsa.evalString(next));
44             }
45         }
46     }
47 }
```