Software Test Cases

Requirements – 5.1 Command Line

5.1.1.a

* Description: The user will enter the Show command at prompt to invoke the Show function.
* Component
  + Type: function
  + Name: main()
  + int main(int argc, char\*\* argv)
* Input Condition: A single character that corresponds to the Show command is entered at command prompt.
* Input State or Configuration: main() is running and a valid Turing machine is defined
* Expected Result: Similar text to below prints to the console screen:

Command: w

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Version: 1.0.0

Help message displayed: false

Max Number of Transitions to perform: 1

Max number of characters to display to left and right of tape head: 32

Turing Machine name: fullValidTm

Turing Machine status: Not yet used on a string

Command:

5.1.1.b

* Description: The user will enter the Set command at prompt and may set the maximum number of transitions in a single operation set.
* Component
  + Type: function
  + Name: main()
  + int main(int argc, char\*\* argv)
* Input Condition: A single character that corresponds to the Set command and then an integer
* Input State or Configuration: main() is running and a valid Turing machine is defined.
* Expected Result: Similar text to below prints to the console screen:

Command: e

Select max number of transitions for each "Run" command <Current: 1>: 1

Number of transitions to run in a single operation set to 1

Command: