Software Test Cases

Requirements – 5.2 Opening of Turing Machine

5.2.8

* Description: The application prompts the user for a command after both the definition file and the string file are found and are valid.
* Component
  + Type: function
  + Name: main()
  + int main(int argc, char\*\* argv)
* Input Condition: none
* Input State or Configuration: main() is running and Turing machine and Input String files are valid.
* Expected Result: Similar text to below prints to the console screen:

./tm fullValidTm

fullValidTm successfully loaded

Command:

5.2.8.a

* Description: The application prepares to exit after declaring a nonexistent definition file.
* Component
  + Type: function
  + Name: main()
  + int main(int argc, char\*\* argv)
* Input Condition: argv[1] is the name of an existing and valid Turing machine definition file.
* Input State or Configuration: main() is running and Turing machine and Input String files are valid.
* Expected Result: Similar text to below prints to the console screen:

./tm tm

File tm.def does not exist

Definition is invalid for reasons above