

Turing Machine Testing Document

Daniel Hanlen

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Testing State

Tests State creation, name setting/getting, and deletion
In this test, I expect to be able to generate a state, have the name set correctly, and then change it to a new name. Deleting a state should cause the number of states to decrease
I saw everything that I was expecting to see. The test passed

Testing Tape Left move at index = 0

We do not want the user to be able to go negative on the tape. So throw an error when this happens
In this test we will deliberately try to have the tape move left at the very start, and expect to see an error with an appropriate message thrown
The error was caused to happen, and we caught it and displayed that the message was properly descriptive

The turning machine should load up previous input strings

We want to save the user effort in retyping, so reload any strings they typed before
Load a turing machine that has had strings created before, list with the l command, and all strings should be present
This test also passed

The turing machine should run a basic turing machine

We want to actually process the strings
Run a turing machine
I ran anbn that you gave us as a test on aabb. It successfully passed in 13 transitions.