

Exploring Computer Technology

FizzQuiz Thu 5 Oct. 2017

Write your name and answer at least one of the questions below. Then save this file with your answer and submit as an attachment via email to msantos@dragonacademy.org

Questions

1. True or False?
 - a) $(7 > 9)$
 - b) $(\text{NOT } (2 >= 3))$
 - c) $((7 > 9) \text{ OR } (\text{NOT } 1 >= 1))$
 - d) $(\text{NOT } (2 >= 3) \text{ AND } ((7 > 9) \text{ OR } (\text{NOT } 1 >= 1)))$
2. What follows are the Transition Rules of a Turing Machine and the initial state and input. Apply the rules one at a time till the machine halts, writing each time the content of the tape on a line below the previous one and writing on the left of each line, the current state of the machine (exactly as we have done in class)
 $(A, 1) \rightarrow (0, C1, <)$
 $(A, 0) \rightarrow (0, C0, <)$
 $(C1, 0) \rightarrow (1, F, >)$
 $(C0, 0) \rightarrow (0, F, >)$
 $(F, X) \rightarrow (X, A, >)$
A 0 1. 1 E