

CS3350 - QUIZ 8

October 15, 2014

10 minutes / 10 points

NAME: Solution

Question 1. [5 points] $L = a^*b^*ab$. Is L a regular language? Why?

L is regular because there is a regular expression to describe it.

Question 2. [5 points] Explain - in no more than two sentences - why all regular languages are "pumpable". * Important: Make sure that your answer is legible and grammatically correct.

Regular languages are recognized by FAs :
if there are strings in such languages that are longer than the number of nodes in the corresponding FA, then these strings "go through a loop of the FA, which therefore make the language pumpable."