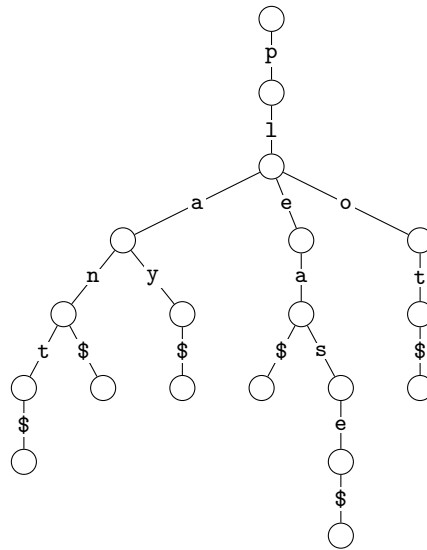

DSC 190 - Homework 08

Due: Wednesday, March 2

Write your solutions to the following problems by either typing them up or handwriting them on another piece of paper. Unless otherwise noted by the problem's instructions, show your work or provide some justification for your answer. Homeworks are due via Gradescope at 11:59 PM.

Problem 1.

In this problem, consider the trie below.



- a) How many strings does the trie contain?

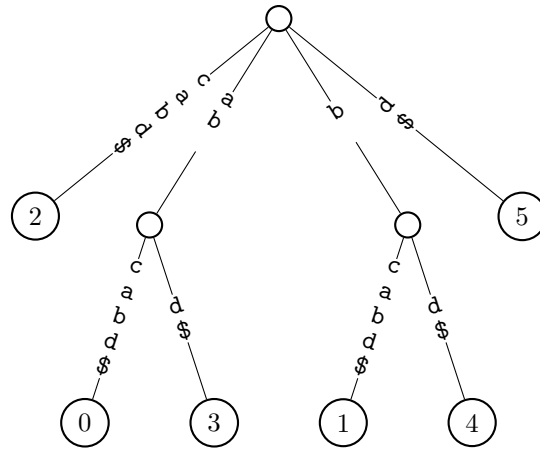
Solution: There are six strings. We can determine this quickly by counting the number of \$ edges.

- b) Is "ploy" contained in the trie?

Solution: No, it isn't. But "plot" is.

Problem 2.

Consider the suffix tree below.



What string does this suffix tree represent?

Solution: "abcabd"