

Q1. consider the following SDT.

$S \rightarrow NP VP$

$NP \rightarrow Det N$ {print("NP value");

$VP \rightarrow V NP$ { print(" V and NP with VP")}

$V \rightarrow includes$ { V.val = "includes"}

$Det \rightarrow the$ {Det.val = "the"}

$Det \rightarrow a$ { Det.val = "a"}

$N \rightarrow meal$ {print ("Mean N")}

$N \rightarrow flight$ {N.val = "flight"}

You need to write a program in python using your favorite parser, which parse above SDT. Input MUST be taken from file "input.txt". Rest of things can either be read from file are hard coded in source code.