CENG 242

Hw #6

Spring 2007/2008

(Due: May 26th, 2008 Monday 23:59)

In this homework, you will again implement the simplified CFG given in Hw3. But this time you will implement only the canGenerate predicate using Prolog language.

It will take three arguments, a CFG composed of the start variable and list of rules, a string we are searching for and the result showing in how many ways the string can be generated by the given CFG. Only the third argument will be asked when evaluating your codes, the others will always be provided.

Example:

?- canGenerate(['S',[['S', "Ta"],['T', "a"],['S', "aa"],[T, "#"]]] , "aa", X).
X = 2

All the specifications for the CFG are same as Hw3's.

Specifications:

- All the work should be done **individually**.
- Your codes should be written in **Prolog** and have the name "**Hw6.pl".**
- In evaluation, black box method will be used. So, be careful about names, types etc.
- You will submit your codes through **cow** system.
- You should test your codes in **inek** machines with **prolog** before submitting.