1. Where is Trenton?

2. What section in the Constitution has a list of our rights?

3. How much wood could a woodchuck chuck, if a woodchuck could chuck wood?
2.25 if A is C.F. then
SUFFIX of A is C.F.

Suppose A is C.F.
so A is generated by a C.F.G., G
G can be written in Chomsky
normal form.

\[
\begin{align*}
A & \rightarrow BC \\
A & \rightarrow a \\
S & \rightarrow \varepsilon
\end{align*}
\]

so CFG, G generates SUFFIX(A)
\[\text{SUFFIX}(A) \text{ is C.F.}\]

abbaba \in A

SUFFIX(A)

\[
\begin{align*}
abbaba \\
bbaba \\
baba \\
aba \\
\varepsilon
\end{align*}
\]
\[ \exists w \mid w \text{ has more a's than b's} \]

**Stack**: keep track of difference in \#.

```
read a
a on stack
push an a
a, a \to a

read a
a, b \to \exists
b, a \to \exists

read a
b on stack
b, b \to \exists

read a
b, a \to \exists
```

```
\[(a, b) \to \exists, \exists, \exists \to \emptyset\]
\[(a, a) \to a, a \to a\]

\[
\vspace{1cm}

\text{a, b, a, b, a, b, b, a, a, a, a, a, a, a, a, a, a, a}
\]