Mini Quiz 9

Name:		
Kerberos:		

Consider the following grammar:

```
P ::= [ E ] $
E ::= T | T, E
T ::= a
```

Q1: Left-factor the above grammar:

Q2: Name two ways of determining which production to try for a hand-coded recursive descent parser:

Consider the following grammar:

```
P ::= E ( C )
E ::= A B
A ::= a | ε
B ::= [ b ] | ε
C ::= c | ε
```

 $T \in First(T)$ $First(S) \subseteq First(S\beta)$ NT derives ϵ implies $First(\beta) \subseteq First(NT\beta)$ NT derives $S\beta$ implies $First(S\beta) \subseteq First(NT)$

Q3: What is First(P)?