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CS 536, HW 3

### Problem 1

$Exp \rightarrow Exp + set / set$

$set \rightarrow set \cup A \mid set \cap A \mid A$

$A \rightarrow (Exp) \mid \{B\}$

$B \rightarrow Country \mid Country C$

$C \rightarrow \#B$



## problem 2

$$(\epsilon a \# b \mid \cup \mid \epsilon \mid \cap \mid \epsilon b \mid) + (\epsilon a \mid \cap \mid \epsilon b \mid)$$

