# Recitation -3

CSE 340

# Parse Trees

S-> aSb | A

S-> bSa | B

A->abA | ab

B-> baB | ba

Is the grammar ambiguous?

# Derivations

- Left most derivation

S->B

 -> bSa

 -> bAa

 -> baba

Can also be derived as:

S-> B

 -> baB

 -> baba

# Derivations

- Right Most derivations

Expression Grammar
Expr  →Expr + Expr
Expr  →Expr * Expr
Expr  →NUM

Ambiguous grammar may have more than one left or right

derivations

# First and Follow sets