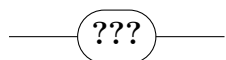


# ECS 140A Homework 2

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First sets:

$$\begin{aligned} First(program) &= First(block) \\ &= First(declarations) \cup First(statementList) \\ &= \{var\} \cup First(statementList) \\ &= \{var\} \cup First(statement) \\ &= \{var\} \cup First(assignment) \cup First(print) \cup First(if) \cup First(do) \cup First(fa) \\ &= \{var\} \cup First(id) \cup \{print\} \cup \{if\} \cup \{do\} \cup \{fa\} \\ &= \{var\} \cup \{id\} \cup \{print\} \cup \{if\} \cup \{do\} \cup \{fa\} \\ &= \{var, \{id\}, print, if, do, fa\} \end{aligned}$$

Expressions:

$$\begin{aligned} First(expression) &= First(simple) \\ &= First(term) \\ &= First(factor) \\ &= \{(\} \cup \{id\} \cup \{number\} &= \{(\{id\}, \{number\}\} \end{aligned}$$