

Sequence of Declaration:

- Refers to how declarations are handled with a grammar's production rules.

$$P \rightarrow \{ \text{offset} = 0 \} D$$

$$D \rightarrow T \text{id} ; \{ \text{top.put} (\text{id.lexeme}, T.\text{type}, \text{offset}) ; \text{offset} = \text{offset} + T.\text{width} ; \} D,$$

$$D \rightarrow E$$

input string : int [3] a ;
float b ;

Generate Type expression for the input string.

- P produces $\{ \text{offset} = 0 \} D$
 - Once offset = 0 set zero for D memo info.
- D produces $T \text{id} ;$ Top stack id lexeme, T type value.
offset value calculate for D, memo info.
- # sequence matter when declare later than declare.
- # Production rule declare then sequence is declare first is important.

