CS 333 Programming Languages

Statement Semantics

- The meaning function of statement is a function that can produce another state by given a state.
- This function can be implemented as a function taking two parameters, a statement \( s \), and a state.
- Skip semantics
  - The meaning function of a skip statement is an *identity function* on the state
- Assignment Semantics
  - **Overriding Union**
    - The meaning of an Assignment is to calculate the value of the source expression based on the current state and replace the value of target variable by the calculated value.