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CS 4223

**Preliminary Grammar for the Compiler**

P := program D begin S end.

D := IL : AR D | IL : integer D | ε

AR := array | array(AR)

IL := ID IL | , ID IL | ε

ID := id | id(SB)

SB := cons SB | id SB | , cons SB | , id SB | ε

S := do S unless C ; S | do S when C ; S | do S when C else S ; S | (IL) in ; S | (IL)out ; S | assign E to ID ; S | ε

E := id | cons | + EE | -EE | \*EE | /EE

C := <EE | >EE | =EE | and CC | or CC | not C