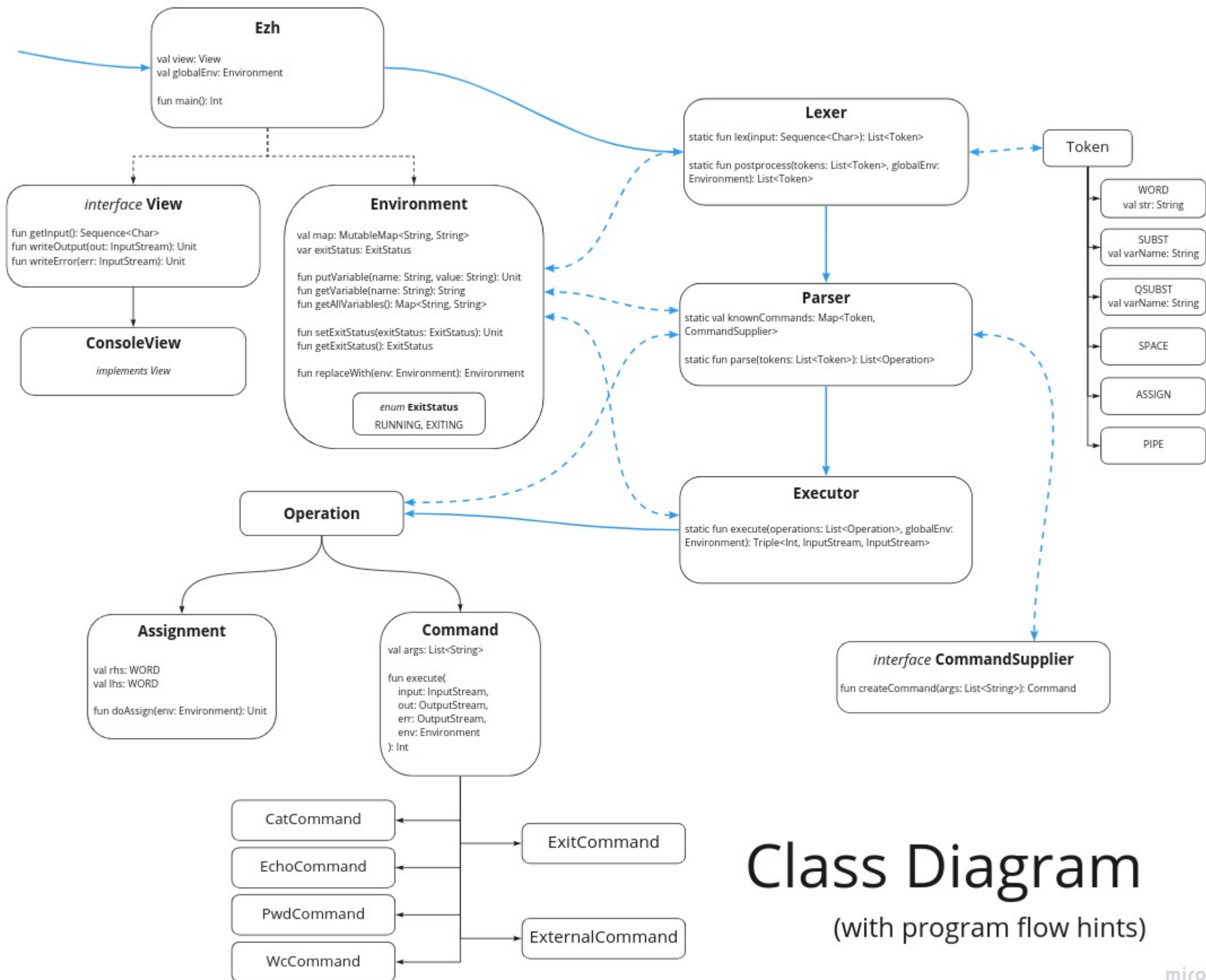
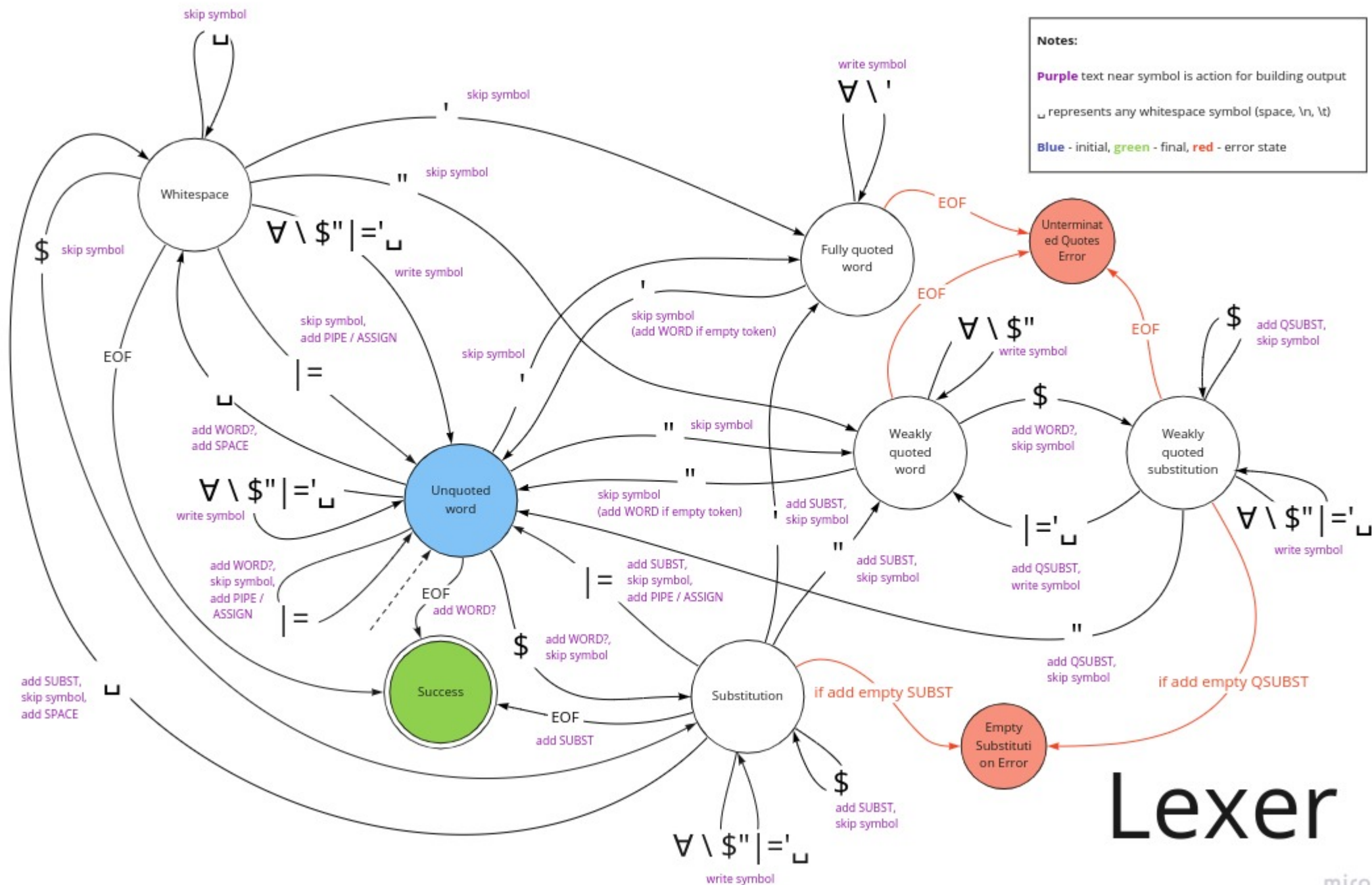


# Class Diagram



# Class Diagram

(with program flow hints)



# Lexer



for each QSUBST

query Environment

replace as WORD

for each SUBST

query Environment

split into WORDs and  
SPACEs

replace as WORDs  
and SPACEs

for each ASSIGN

if SPACE near ASSIGN

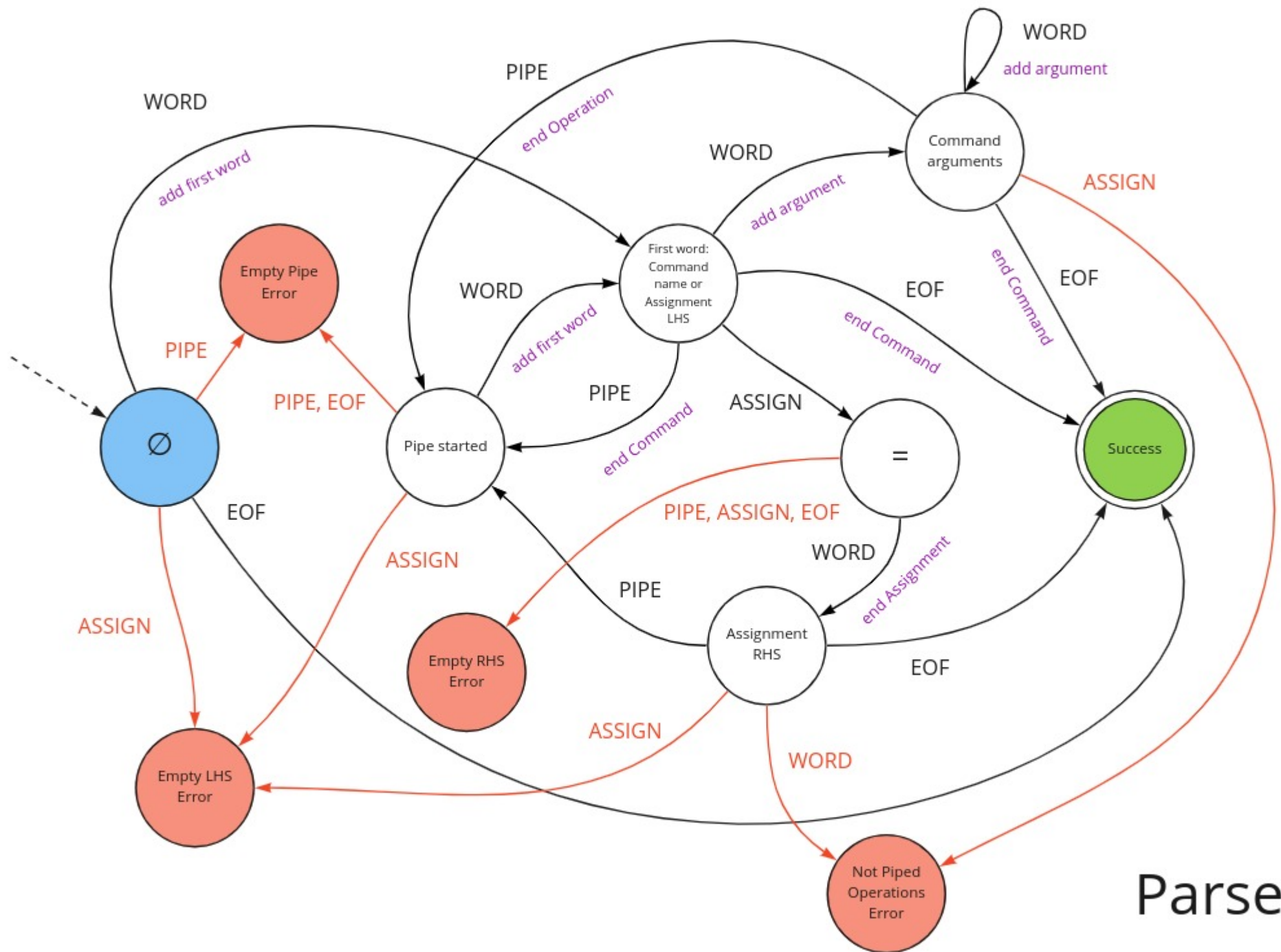
Space Near Assign Error

merge WORDs without  
SPACE between them

delete all SPACEs

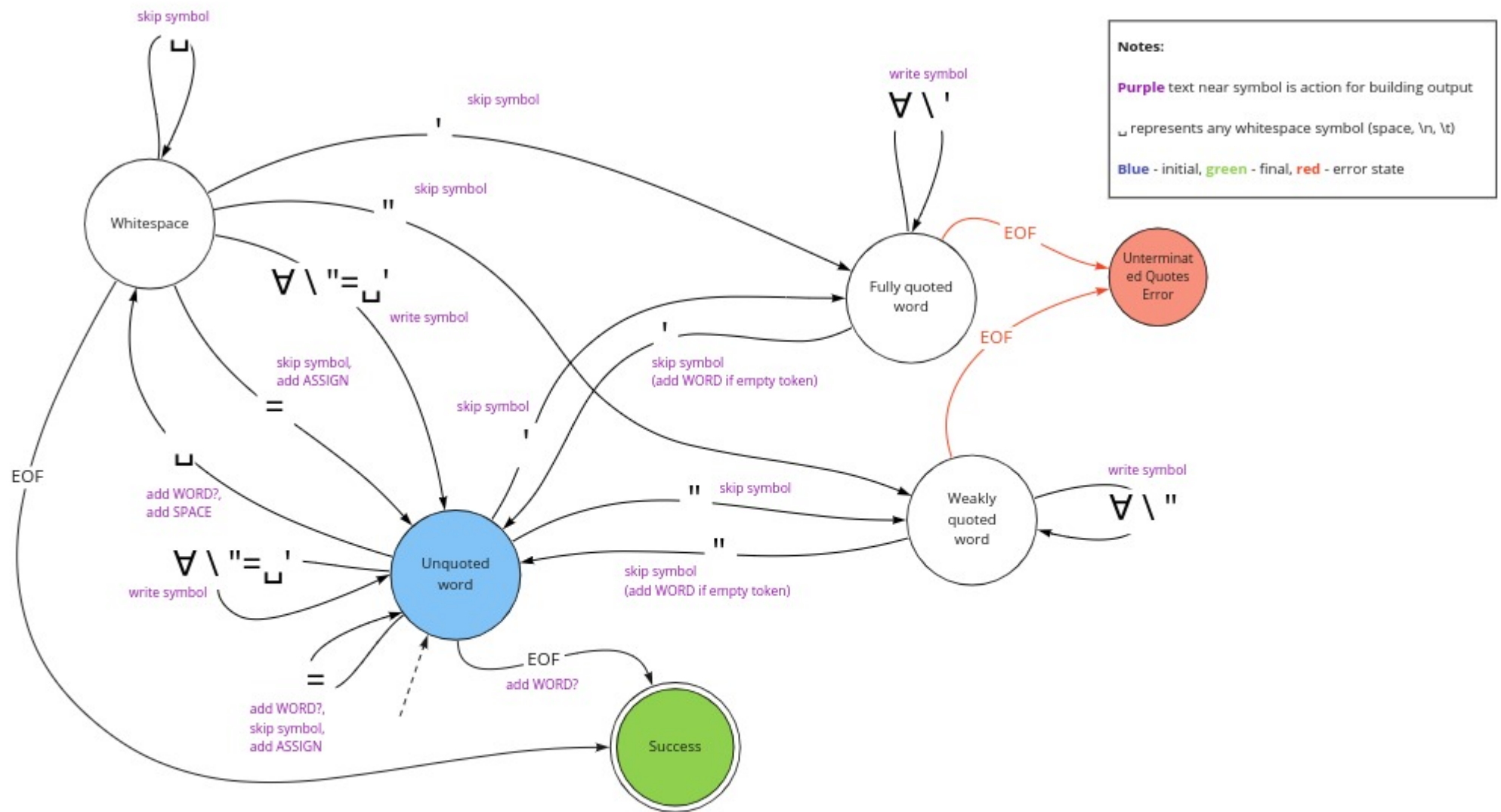
# Lexer Post Processing

micro



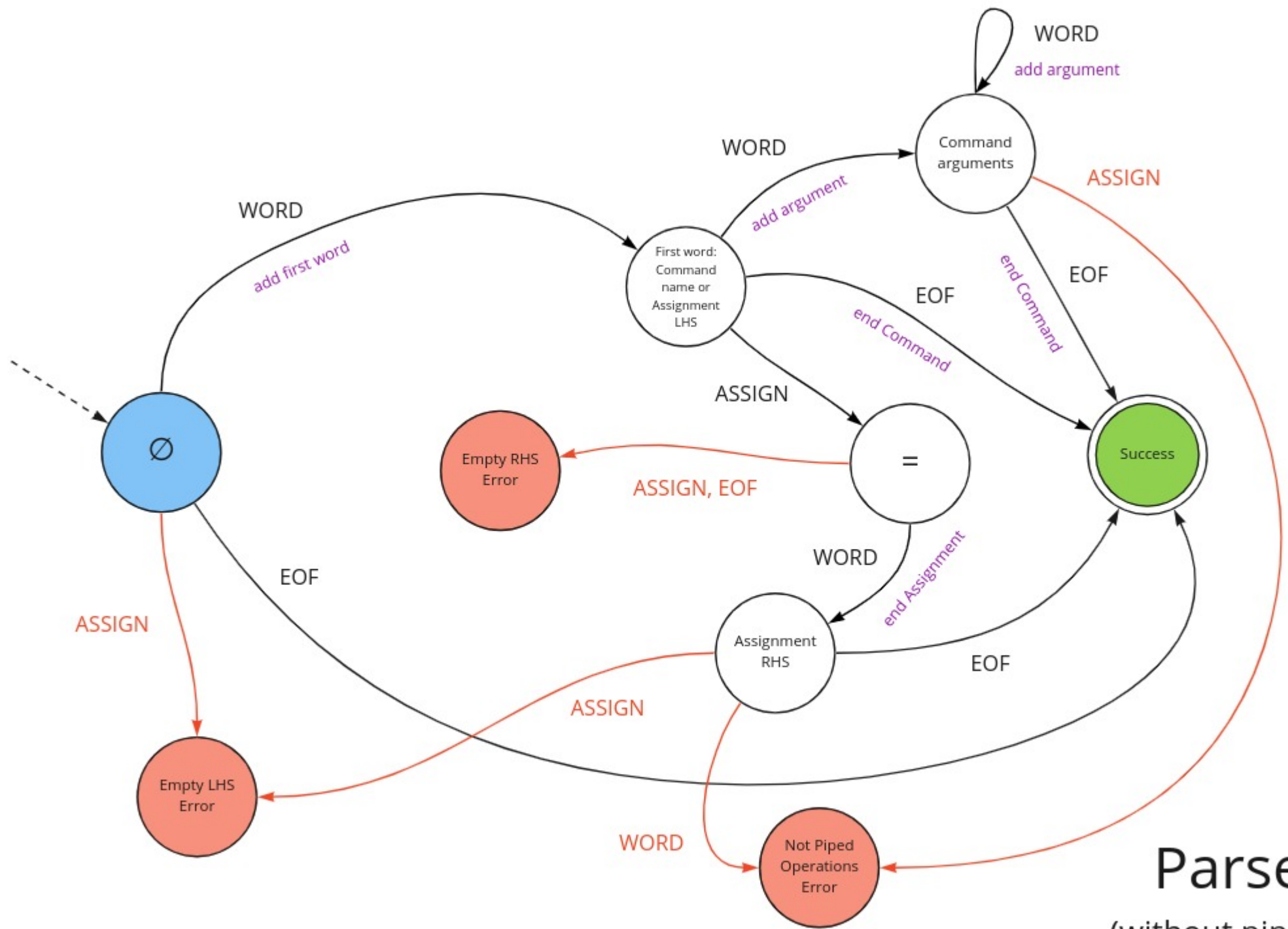
# Parser





# Lexer

(without substitutions and pipes)



Parser  
(without pipes)