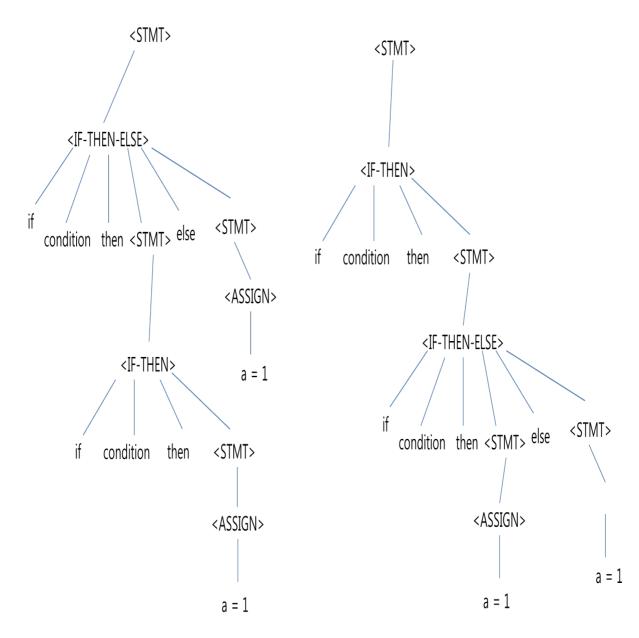
Yeonsung Kim(ykim103) Jaehwan Park(park 155) Hyounmin Wang(wang204)

Problem 2

(a) Show that the grammar G is ambiguous.

Make "If condition then if condition then a=1 else a=1"

There is more than one way for making the statement.



(b) Give an unambiguous grammar that generates the same language as G.

$$<$$
STMT> \longrightarrow $<$ ASSIGN> | $<$ IF-THEN> \longrightarrow if condition then $<$ STMT> | else $<$ STMT> | $<$ STMT> if condition then $<$ STMT> \longrightarrow a=1