

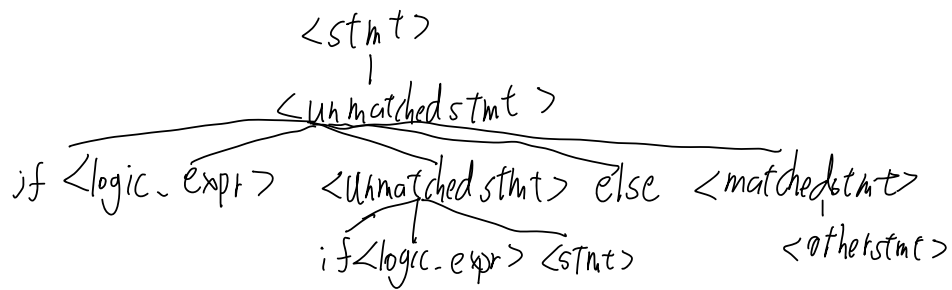
1.

$\langle \text{STMT} \rangle \rightarrow \langle \text{MATCHEDSTMT} \rangle \mid \langle \text{UNMATCHEDSTMT} \rangle$

$\langle \text{MATCHEDSTMT} \rangle \Rightarrow \text{if } \langle \text{LOGICEXPR} \rangle \langle \text{MATCHEDSTMT} \rangle \text{ else } \langle \text{MATCHEDSTMT} \rangle \mid \langle \text{OTHERSTMT} \rangle$

$\langle \text{UNMATCHEDSTMT} \rangle \Rightarrow \text{if } \langle \text{LOGICEXPR} \rangle \langle \text{STMT} \rangle \mid \text{if } \langle \text{LOGICEXPR} \rangle \langle \text{UNMATCHEDSTMT} \rangle \text{ else } \langle \text{MATCHEDSTMT} \rangle$

$\langle \text{OTHERSTMT} \rangle \rightarrow a := 1$ (Some other statements)



2.

$A(x) = x$ is a student

$B(x) = x$ is in this class

$C(x) = x$ has visited Shanghai

$D(x) = x$ has visited Hangzhou

$\forall x (A(x) \vee B(x)) \rightarrow (C(x) \wedge D(x))$