1. Draw an annotated parse tree for the expression (3+5)*8-7n from the following syntax directed definition:

PRODUCTION	SEMANTIC RULE
$L \rightarrow E\mathbf{n}$	*Print(E.val);*
$E \rightarrow E_1 + T$	*E.val=E_1.val+T.val*
$E \rightarrow E_1 - T$	*E.val=E_1.val - T.val*
$E \rightarrow T$	*E.val=T.val*
$T \rightarrow T1*F$	*T.val=T_1.val*F.val*
$T \rightarrow F$	*T.val=F.val*
$F \rightarrow (E)$	*F.val=E.val*
$F \rightarrow \mathbf{digit}$	*F.val=$\mathbf{digit}$.lexval*

2. Construct the dag from the expression (((a+a)+(a+a))+((a+a)+(a+a))).

3. Translate the expression -(a+b)*(c+d)+(a+b+c) into quadruples and triples.