1. Perform the pairwise disjointness test for the following grammar rules.
   a. $A \rightarrow aB \mid b \mid cBB$
   b. $B \rightarrow aB \mid bA \mid aBb$
   c. $C \rightarrow aaA \mid b \mid caB$

2. Perform the pairwise disjointness test for the following grammar rules.
   a. $S \rightarrow aSb \mid bAA$
   b. $A \rightarrow B \{aB\} \mid a$
   c. $B \rightarrow aB \mid a$

3. Show a trace of the recursive descent parser given in Section 4.4.1 for the string $a + b * c$.
4. Show a trace of the recursive descent parser given in Section 4.4.1 for the string $a * (b + c)$.