Consider the following BNF grammar:

<exp → <exp> # <element> | <element>
<element> → <factor> $ <element> | <factor>
<factor> → x | y

2. (15 points) Is the grammar ambiguous or unambiguous by considering the following sample sentences: x # y, x $ y, x $ y # x? Why?

   It is unambiguous. We cannot generate more than one parse tree for each sample sentences.

3. (15 points) What is the associativity of the $ operator?

   Answer: right associativity

3. (15 points) What is the associativity of the # operator?

   Answer: left associativity

3. (15 points) Which operator has higher precedence?

   Answer: $