

## BNF推导2

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**Answer:**

As the following program and the given grammar, I derived a parse tree. And I inferred the operator “+” is left-associative, the reason is that according to the grammar  $\langle \text{Expr} \rangle \rightarrow \langle \text{Operand} \rangle \mid \langle \text{Expr} \rangle \langle \text{Operator} \rangle \langle \text{Operand} \rangle$ , we can know that when there are no parentheses, the order of operations is from left to right.

```
VAR xyz: INTEGER;  
VAR count: INTEGER;  
BEGIN  
  xyz := 5;  
      count := xyz + 1;  
END;
```

The parse tree:

