

3. (1) $\text{FirstVT}(S) = \{a, \wedge, (\}$
 $\text{FirstVT}(T) = \{, , a, \wedge, (\}$
 $\text{LastVT}(S) = \{a, \wedge,)\}$
 $\text{LastVT}(T) = \{, , a, \wedge,)\}$

| | | | | | |
|-----|---|---|---|---|---|
| (2) | a | ^ | (|) | , |
| a | | | | > | > |
| ^ | | | | > | > |
| (| < | < | < | = | < |
|) | | | | > | > |
| , | < | < | < | > | > |

| (4) | 栈 | 输入字符串 | 动作 |
|-----|----------|------------|----|
| | # | (a,(a,a))# | 预备 |
| | #(| a,(a,a))# | 进 |
| | #(a | ,(a,a))# | 进 |
| | #(T | ,(a,a))# | 归 |
| | #(T, | (a,a))# | 进 |
| | #(T,(| a,a))# | 进 |
| | #(T,(a | ,a))# | 进 |
| | #(T,(T | ,a))# | 归 |
| | #(T,(T, | a))# | 进 |
| | #(T,(T,a |)# | 进 |
| | #(T,(T,S |)# | 归 |
| | #(T,(T |)# | 归 |
| | #(T,(T) |)# | 进 |
| | #(T,S |)# | 归 |
| | #(T |)# | 归 |
| | #(T) | # | 进 |
| | #S | # | 归 |