

$$(c) \quad S \equiv \lambda (i > 1) \text{ then } [S i] := [S i - 1] \text{ else } [S i] := 0 \text{ and}$$

$$Q \equiv (A \lambda z) (1 \leq \lambda < |S| \rightarrow [S \lambda] = [S \lambda - 1])$$

$$\equiv wp(S, Q) \equiv$$

$$(1) \quad \lambda (i > 1) \wedge ((i > 1) \wedge wp(S1, Q)) \vee (i = 1) \wedge wp(S2, Q)$$

$$(1) \equiv wp(S := \text{salt}(S1, [S i - 1]), Q)$$

$$\equiv \text{salt}(\text{salt}(S1, [S i - 1]), Q)$$

$$(2) \equiv \text{salt}(S) \wedge \text{salt}(i) \wedge \text{salt}([S i - 1]) \wedge 0 \leq i < |S|$$

$$\equiv \text{salt}(S) \wedge \text{salt}(i) \wedge 0 \leq i - 1 < |S| \wedge 0 \leq i < |S|$$

$$\equiv 1 \leq i < |S| + 1 \wedge 0 \leq i < |S| \rightarrow \text{then condition holds}$$

$$\equiv 1 \leq i < |S| \vee$$

$$(2) \quad (A \lambda z) (1 \leq \lambda < |S| \rightarrow \text{salt}([S \lambda] = [S \lambda - 1]))$$

$$\equiv (A \lambda z) (1 \leq \lambda < |S| \rightarrow (1 \neq \lambda \vee \lambda = 1 \vee \lambda = |S| \rightarrow \text{salt}([S \lambda] = [S \lambda - 1])))$$

$$(3) \quad (1 \leq \lambda < |S| \rightarrow \text{salt}([S \lambda] = [S \lambda - 1])) \vee (\lambda = 1 \vee \lambda = |S| \rightarrow \text{salt}([S \lambda] = [S \lambda - 1]))$$

$$(1 \neq \lambda \vee \lambda = 1 \vee \lambda = |S| \rightarrow \text{salt}([S \lambda] = [S \lambda - 1]))$$

A

recursion on  $\lambda$  &  $|S|$

$$\equiv 1 < \lambda < |S| \wedge A$$