

$\langle\langle S_1[z+1/z] \rangle\rangle z=z+1; \langle\langle S_1 \rangle\rangle$

$\langle\langle S_0 \wedge z \neq x \rangle\rangle z=z+1 \langle\langle S_1 \rangle\rangle$

$\langle\langle S_1 \rangle\rangle y[z]=y[z-1]*z \langle\langle S_0 \rangle\rangle$

$\langle\langle S_0 \wedge z \neq x \rangle\rangle z=z+1; y[z]=y[z-1]*z \langle\langle S_0 \rangle\rangle$

$\langle\langle S_0 \rangle\rangle \text{while } z \neq x \{ z=z+1; y[z]=y[z-1]*z \} \langle\langle S_0 \wedge z=x \rangle\rangle$

$\langle\langle \forall i (0 \leq i \leq x \supset y[i]=1) \wedge z=0 \rangle\rangle \text{while } z \neq x \{ z=z+1; y[z]=y[z-1]*z \} \langle\langle \forall i (0 \leq i \leq x \supset y[i]=i!) \rangle\rangle$

$S_0: \forall i (0 \leq i \leq z \supset y[i]=i!)$ $\wedge \forall i (z < i \leq x \supset y[i]=1)$

$S_1: \forall i (0 \leq i \leq z \supset y(y[z-1]*z ; z)[i]=i!)$ $\wedge \forall i (z < i \leq x \supset y(y[z-1]*z ; z)[i]=1)$

$S_1[z+1/z]:$

$\forall i (0 \leq i \leq z+1 \supset y(y[z]*(z+1) ; z+1)[i]=i!)$ $\wedge \forall i (z+1 < i \leq x \supset y(y[z]*(z+1) ; z+1)[i]=1)$

検証条件

$\forall i (0 < i \leq z \supset y[i]=i!)$ $\wedge \forall i (z < i \leq x \supset y[i]=1)$ $\wedge y[0]=1 \wedge z \neq x \supset S_1[z+1/z]$

$\forall i (0 \leq i \leq x \supset y[i]=1) \wedge z=0 \supset S_0$

$S_0 \wedge z=x \supset \forall i (0 \leq i \leq x \supset y[i]=i!)$