

$$0 \leq i < |A| \wedge ((A[i] + 1) \neq 2) \equiv$$

$$0 \leq i < |A| \wedge ((A[i])^2 + 2A[i] + 1 \neq 2) \equiv$$

$$0 \leq i < |A| \wedge ((A[i])^2 + 2A[i] + 1 \neq 1)$$

③

$$\text{wp}(\theta := A[i] + 1; \theta := b^*b, \theta \geq 0) \equiv$$

$$\text{wp}(\theta := A[i] + 1; \text{wp}(\theta := b^*b, \theta \leq 0)) \equiv$$

$$\text{wp}(\theta := A[i] + 1; (\text{def}(b^*b) \wedge (\theta \leq 0))_{b^*b}^{\text{def}}) \equiv$$

$$\text{wp}(\theta := A[i] + 1, b^*b \leq 0) \equiv \boxed{b^*b \leq 0} \boxed{?} \textcircled{+}$$

④ En este caso no hay "θ" para reemplazar en la precondición o para decir algo que el wp termine ahí?

$$\textcircled{a} \text{wp}(\theta := \theta - b; b := \theta + b, \theta \geq 0 \wedge b \geq 0) \equiv$$

$$\text{wp}(\theta := \theta - b; \text{wp}(b := \theta + b, \theta \geq 0 \wedge b \geq 0)) \equiv$$

$$\text{wp}(\theta := \theta - b; (\theta \geq 0 \wedge (\theta + b) \geq 0)) \equiv$$

$$(\theta - b \geq 0 \wedge ((\theta - b) + b) \geq 0) \equiv$$

$$\boxed{(\theta \geq b \wedge \theta \geq 0)}$$