

$\alpha_i \leq 1 \wedge \alpha_j \leq 1$

A

 $\sigma = \{a[0] \mapsto 0, a[1] \mapsto 0, i \mapsto \alpha_i, j \mapsto \alpha_j\} \quad \pi = true$
if (i > 1 || j > 1) $\alpha_i > 1 \vee \alpha_j > 1$

B

 $\sigma = \{a[0] \mapsto 0, a[1] \mapsto 0, i \mapsto \alpha_i, j \mapsto \alpha_j\} \quad \pi = \alpha_i \leq 1 \wedge \alpha_j \leq 1$
a[i] = 5;

C

 $\sigma = \{a[0] \mapsto 0, a[1] \mapsto 0, i \mapsto \alpha_i, j \mapsto \alpha_j\} \quad \pi = \alpha_i > 1 \vee \alpha_j > 1$
return;

D

 $\sigma = \{ \boxed{a[0] \mapsto ite(\alpha_i = 0, 5, 0), a[1] \mapsto ite(\alpha_i = 1, 5, 0)} , i \mapsto \alpha_i, j \mapsto \alpha_j \} \quad \pi = \alpha_i \leq 1 \wedge \alpha_j \leq 1$
assert(a[j] != 5); $\boxed{ite(\alpha_j = 0, ite(\alpha_i = 0, 5, 0), ite(\alpha_i = 1, 5, 0)) \neq 5} \wedge \alpha_i \leq 1 \wedge \alpha_j \leq 1$ **if** ($\alpha_i = 0 \wedge \alpha_j = 0$) \vee ($\alpha_i = 1 \wedge \alpha_j = 1$) **ERROR**