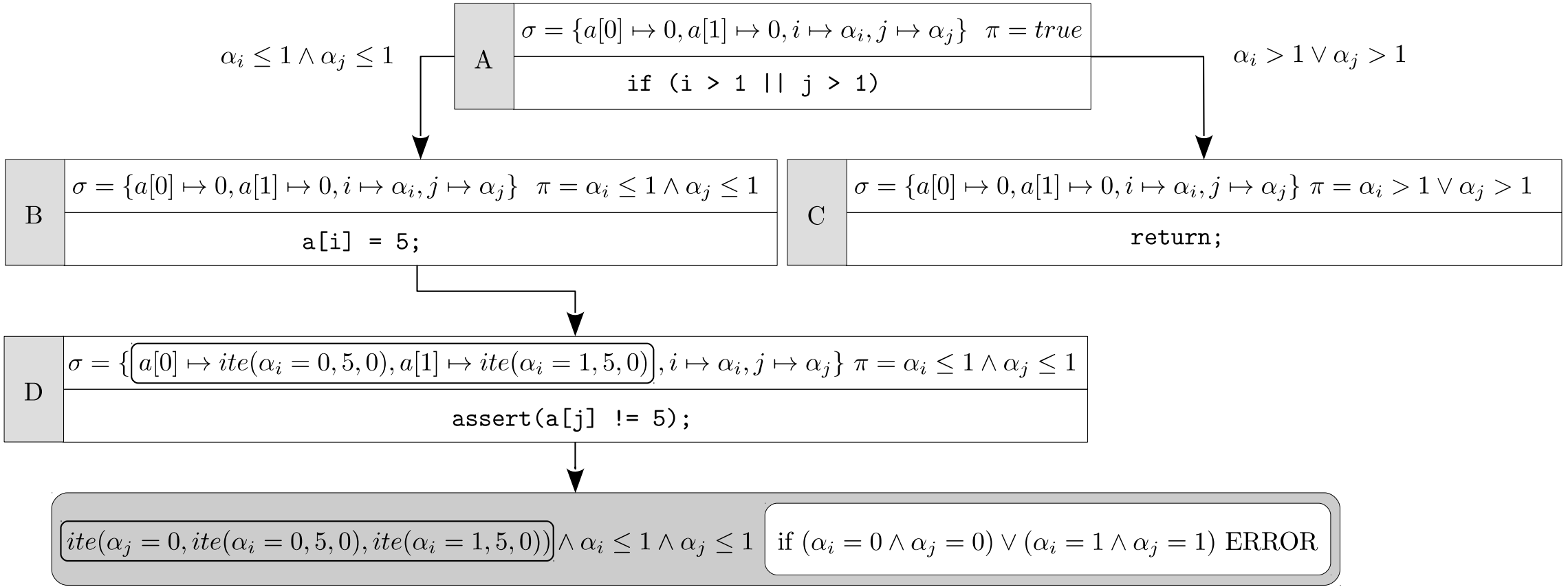
A
$\sigma = \{a[0] \mapsto 0, a[1] \mapsto 0, i \mapsto \alpha_i, j \mapsto \alpha_j\}$ $\pi = true$
if (i > 1 || j > 1)
$\alpha_i \leq 1 \wedge \alpha_j \leq 1$
$\alpha_i > 1 \vee \alpha_j > 1$
B
$\sigma = \{a[0] \mapsto 0, a[1] \mapsto 0, i \mapsto \alpha_i, j \mapsto \alpha_j\}$ $\pi = \alpha_i \leq 1 \wedge \alpha_j \leq 1$
a[i] = 5;
C
$\sigma = \{a[0] \mapsto 0, a[1] \mapsto 0, i \mapsto \alpha_i, j \mapsto \alpha_j\}$ $\pi = \alpha_i > 1 \vee \alpha_j > 1$
return;
D
$\sigma = \{a[0] \mapsto ite(\alpha_i = 0, 5, 0), a[1] \mapsto ite(\alpha_i = 1, 5, 0), i \mapsto \alpha_i, j \mapsto \alpha_j\}$ $\pi = \alpha_i \leq 1 \wedge \alpha_j \leq 1$
assert(a[j] != 5);
$ite(\alpha_j = 0, ite(\alpha_i = 0, 5, 0), ite(\alpha_i = 1, 5, 0)) \wedge \alpha_i \leq 1 \wedge \alpha_j \leq 1$
if $(\alpha_i = 0 \wedge \alpha_j = 0) \vee (\alpha_i = 1 \wedge \alpha_j = 1)$ ERROR