

sort(3 3 5 1 2 2) = 1 2 2 3 3 5 (✓)
sort(6 4 5 1 5 4) = 1 4 4 5 5 6 (✓)
sort(5 6 2 4 4 6) = 2 3 4 5 6 6 (✗)

sort(3 3 5 1 2 2) = 1 2 2 3 3 5 (✓)
sort(6 4 5 1 5 4) = 1 3 4 5 5 5 (✗)
sort(5 6 2 4 4 6) = 2 3 4 5 6 6 (✗)

— Repair Trajectory
✗ Buggy Program
● Repaired Program

sort(3 3 5 1 2 2) = 1 2 2 3 3 5 (✓)
sort(6 4 5 1 5 4) = 1 4 4 5 5 6 (✓)
sort(5 6 2 4 4 6) = 2 4 4 5 6 6 (✓)

sort(3 3 5 1 2 2) = 3 2 2 2 2 2 (✗)
sort(6 4 5 1 5 4) = 6 4 4 4 4 4 (✗)
sort(5 6 2 4 4 6) = 5 4 4 4 4 4 (✗)

Correctness Loss

