

sort(5 1 5 3 4 3) = 5 3 3 3 3 3 (X)
sort(3 3 5 1 2 2) = 3 3 2 2 2 2 (X)
sort(4 5 2 1 5 5) = 5 5 5 5 1 5 (X)

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

— Repair Trajectory
✗ Buggy Program
● Repaired Program

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

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

Correctness Loss

9.0

7.5

6.0

4.5

3.0

1.5

0.0