

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

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

— Repair Trajectory
✗ Buggy Program
● Repaired Program

Correctness Loss

9.5
8.5
7.5
6.5
5.5
4.5
3.5
2.5
1.5
0.5

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

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