

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(2 5 4 2 2 1) = 1 2 2 2 5 5 (✗)

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

Repair Trajectory
✗ Buggy Program
● Repaired Program

Correctness Loss

9.0

7.5

6.0

4.5

3.0

1.5

0.0

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(2 5 4 2 2 1) = 1 2 2 2 4 5 (✓)

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