

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

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

— Repair Trajectory
✗ Buggy Program
● Repaired Program

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

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

Correctness Loss

9.0

7.5

6.0

4.5

3.0

1.5

0.0