

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

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

— Repair Trajectory  
✗ Buggy Program  
● Repaired Program

Correctness Loss

9.0

7.5

6.0

4.5

3.0

1.5

0.0

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

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