

hist(a c b a c a) = 3 2 1 3 2 3 (✓)
hist(a b d d a a) = 3 1 2 2 3 3 (✓)
hist(a c a c a c) = 3 3 3 3 3 3 (✓)

hist(a c b a c a) = 6 6 6 6 6 6 (✗)
hist(a b d d a a) = 6 6 6 6 6 6 (✗)
hist(a c a c a c) = 6 6 6 6 6 6 (✗)

Correctness Loss

14.4

12.8

11.2

9.6

8.0

6.4

4.8

3.2

1.6

0.0

Repair Trajectory
✗ Buggy Program
● Repaired Program

hist(a c b a c a) = 3 2 1 3 2 3 (✓)
hist(a b d d a a) = 3 1 2 2 3 3 (✓)
hist(a c a c a c) = 3 2 3 3 3 3 (✗)

hist(a c b a c a) = 3 2 1 3 2 3 (✓)
hist(a b d d a a) = 3 1 3 3 3 3 (✗)
hist(a c a c a c) = 3 2 3 2 3 2 (✗)