



d_3

Append element **b**!

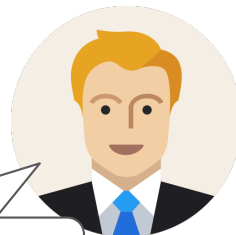
1



d_2

Is element **a** in the set?

3



d_3

4

Yes! Proof π .

5

$\text{VerMemb}(d_3, a, \pi)$



Has the set been updated?

6



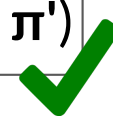
d_1

7

Yes! To d_4 . Proof π' .

8

$\text{VerAppendOnly}(d_1, d_4, \pi')$



9

d_4

$\{a, g, c\}$

2

$\{a, g, c, b\}$

d_4