

## Answer

To show that formula  $Inv$  is not an inductive invariant, consider a step that starts with control at  $d$  and  $x$  equal to  $y$ . I believe the simplest inductive invariant that implies  $PartialCorrectness$  is:

$$\wedge Inv$$

$$\wedge (pc = \text{“d”}) \Rightarrow (x \neq y)$$

[CLOSE](#)