

$$D = \{1, 2\}$$

$$a' = 1$$

$$f'(1) = f'(2) = 1$$

$$g'(1) = g'(2) = 2$$

$$p \neq p' = \{(1, 1), (1, 2)\}$$

$$\text{falsify: } \forall x \uparrow (f(x), a) \rightarrow \exists x \uparrow p(g(x), x)$$