

r1:  $\text{president}(X) \wedge \text{person}(Y) \Rightarrow \text{friend}(X, Y)$

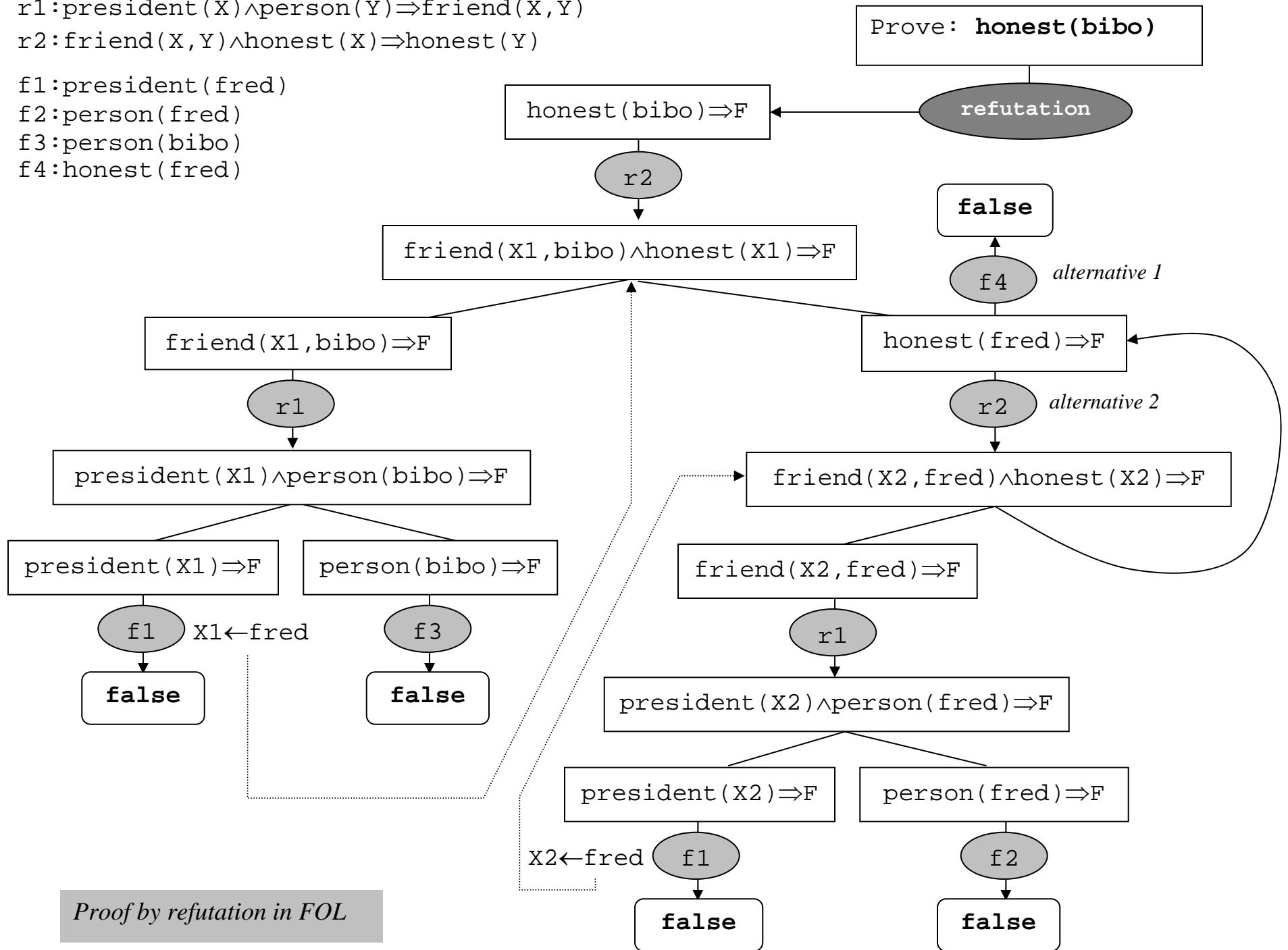
r2:  $\text{friend}(X, Y) \wedge \text{honest}(X) \Rightarrow \text{honest}(Y)$

f1:  $\text{president}(\text{fred})$

f2:  $\text{person}(\text{fred})$

f3:  $\text{person}(\text{bibo})$

f4:  $\text{honest}(\text{fred})$

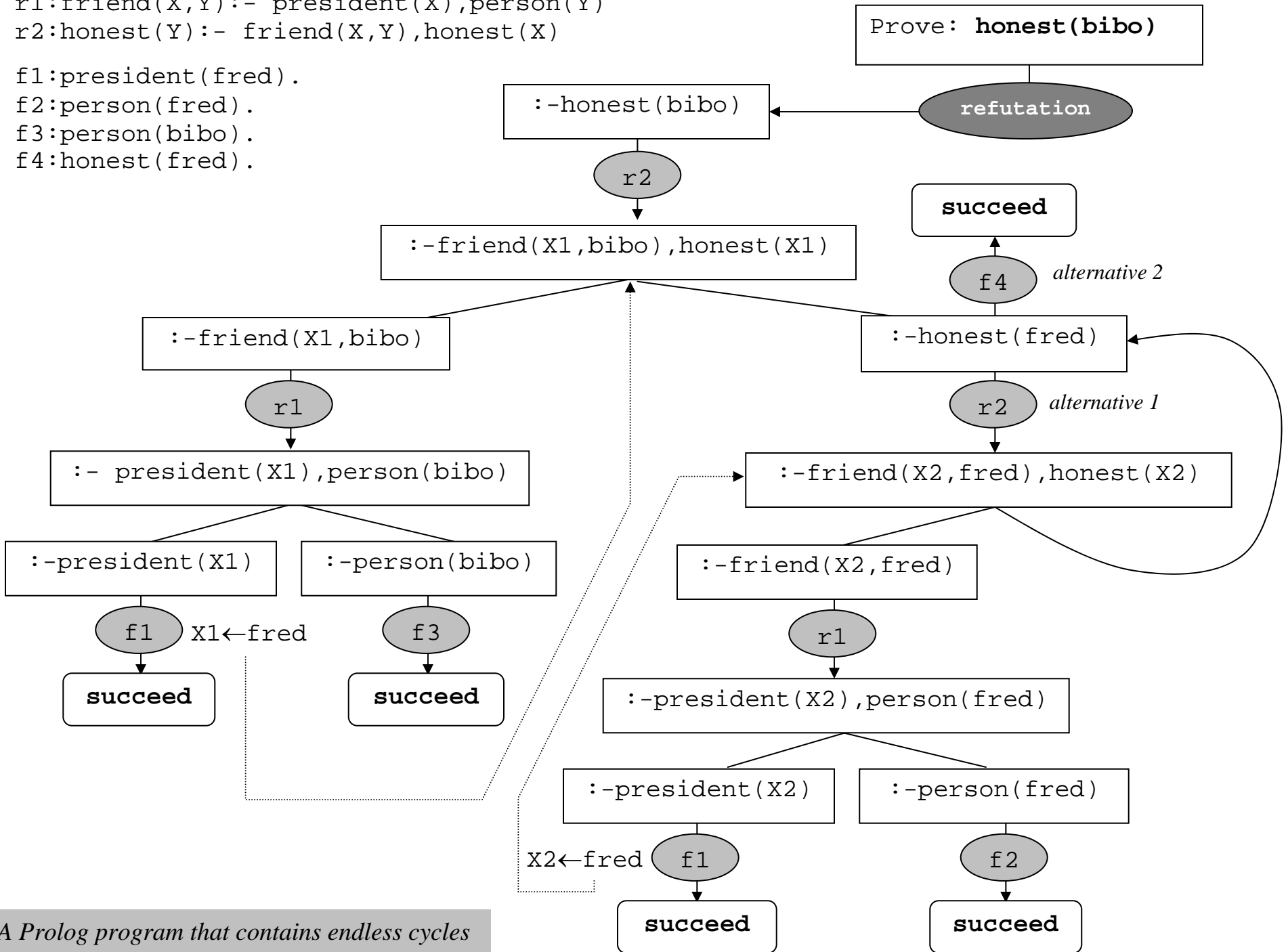


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r1:friend(X,Y):- president(X),person(Y)
r2:honest(Y):- friend(X,Y),honest(X)

f1:president(fred).
f2:person(fred).
f3:person(bibo).
f4:honest(fred).

```



A Prolog program that contains endless cycles