

RANKING:

a, b
 c

$$a \sim b \Leftrightarrow (a \succeq b) \wedge (b \succeq a)$$

$$a \succ c \Leftrightarrow (a \succeq c) \wedge \neg (c \succeq a)$$

$$b \succ c \Leftrightarrow (b \succeq c) \wedge \neg (c \succeq b)$$

$$u(a) = u(b) = 2, u(c) = 1$$

$$u(a) = u(b) = 512, u(c) = -15$$

TRANS = EXISTENCE OF MAX. ACT.:

PROOF BY CONTRADICTION

$$x_1 < x_2 < \dots < x_i < x_{i+1} < \dots < x_i \stackrel{\text{TRANS}}{\Rightarrow} x_i > x_i \quad \text{⚡}$$

$$a < b < c < a$$

MONEY PUMP

$$\text{SPORTS} < \text{SUV} < \text{SEDAN} < \text{SPORTS}$$