



Si estrae  $v$

1 PESI NON NEGATIVI

$$\delta(s, y) \leq \delta(s, u)$$

2 UPPER BOUND PROPERTY

$$\delta(s, u) \leq d[u]$$

3 HEAP

$$d[u] \leq d[y]$$

4 PROP. CONVERGENZA + HYP INDUTTIVA

$$d[y] = \delta(s, y)$$

$$\delta(s, y) \overset{1}{\leq} \delta(s, u) \overset{2}{\leq} d[u] \overset{3}{\leq} d[y] \overset{4}{\leq} \delta(s, y)$$



$$\delta(s, u) = d[u] \quad \square$$