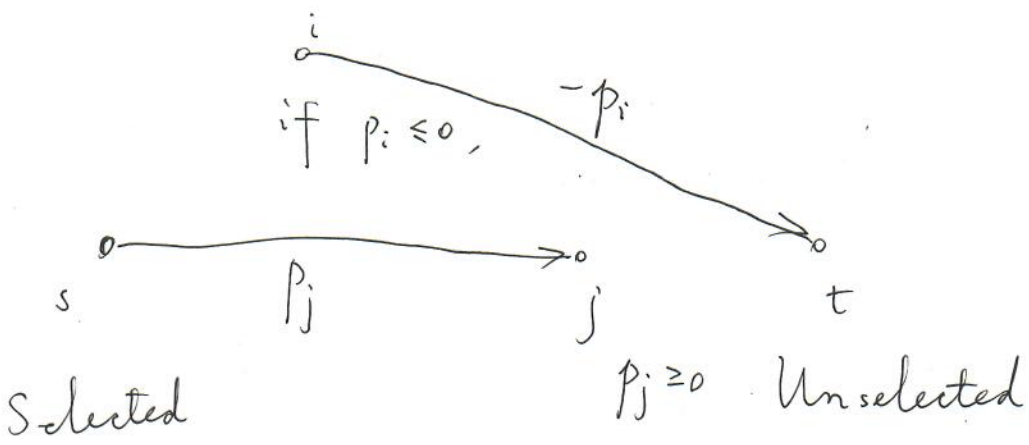


Foreground
A

Background
B

negative profits : $\min \left(- \sum_{p_i \in A} p_i \right) \Leftrightarrow \max \sum_{i \in A} p_i$



$$i$$

$$p_i \geq 0.$$

s

t

Think about $C = \sum_{i: p_i \geq 0} p_i$.

A node j on the side of B , can have edge from s to j w/ capacity p_j .

Then the total capacity contributed by nodes w/ pos. profits is

$$\sum_{\substack{j: j \in B \\ p_j \geq 0}} p_j = C - \sum_{\substack{j: j \in A \\ p_j \geq 0}} p_j$$