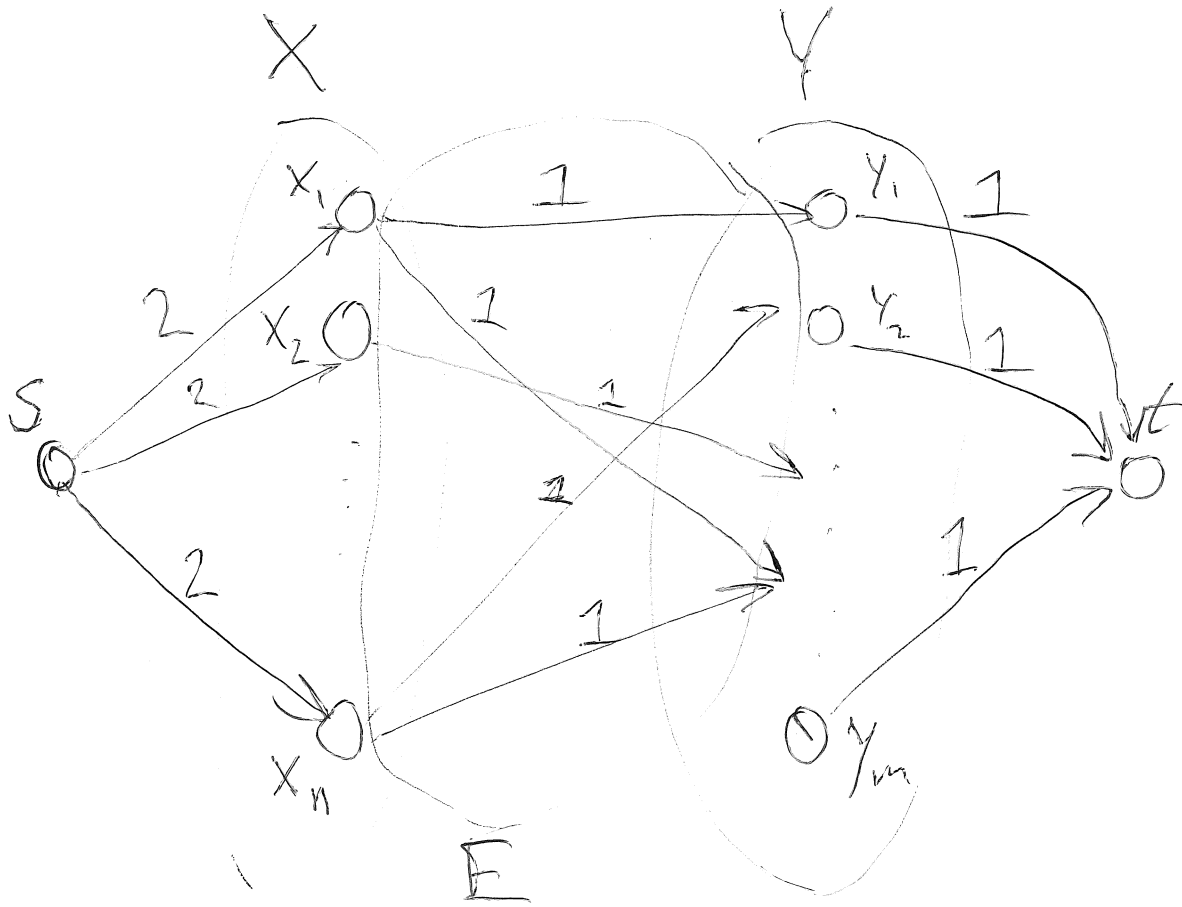


# Exc 7 Figure

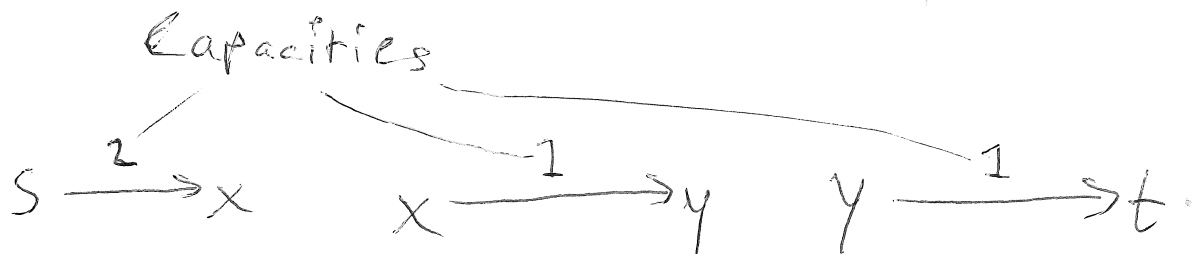
Arash Rouhani

*AR*



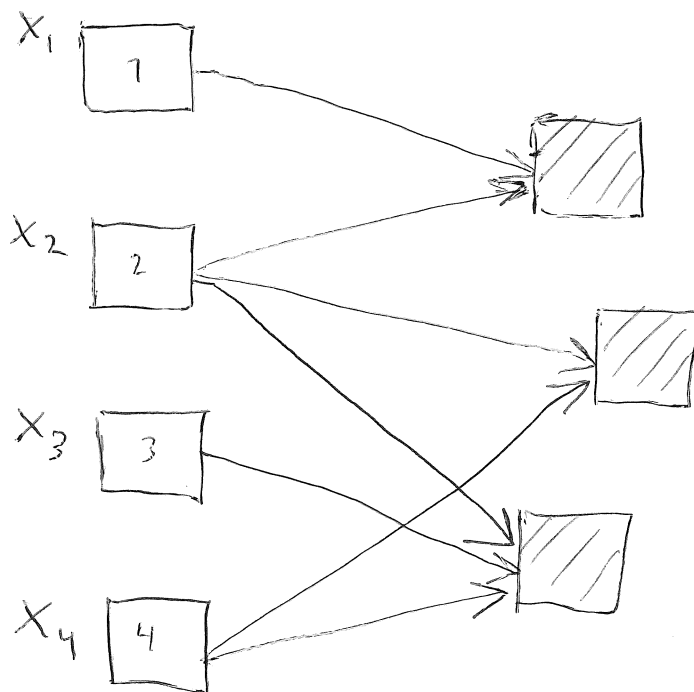
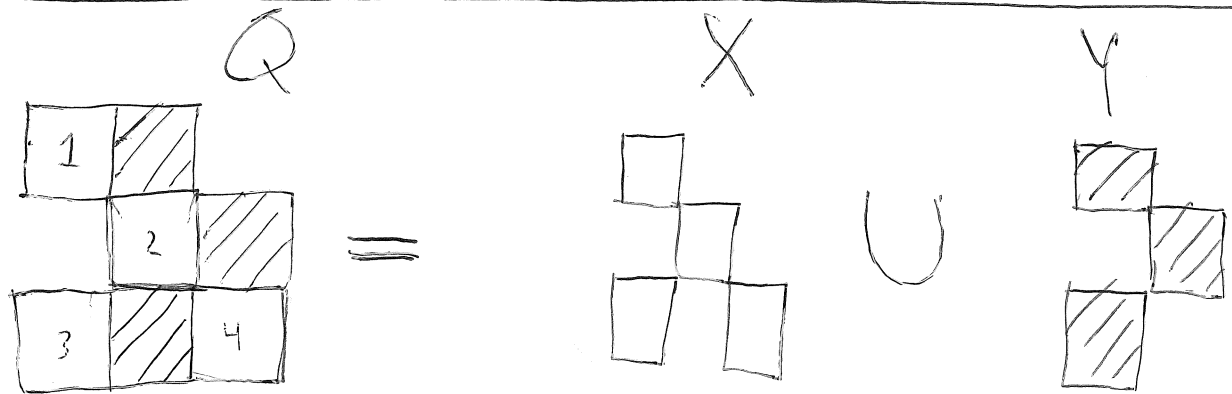
The constructed flow-graph.

We have edge-types



# Exc 8

Al

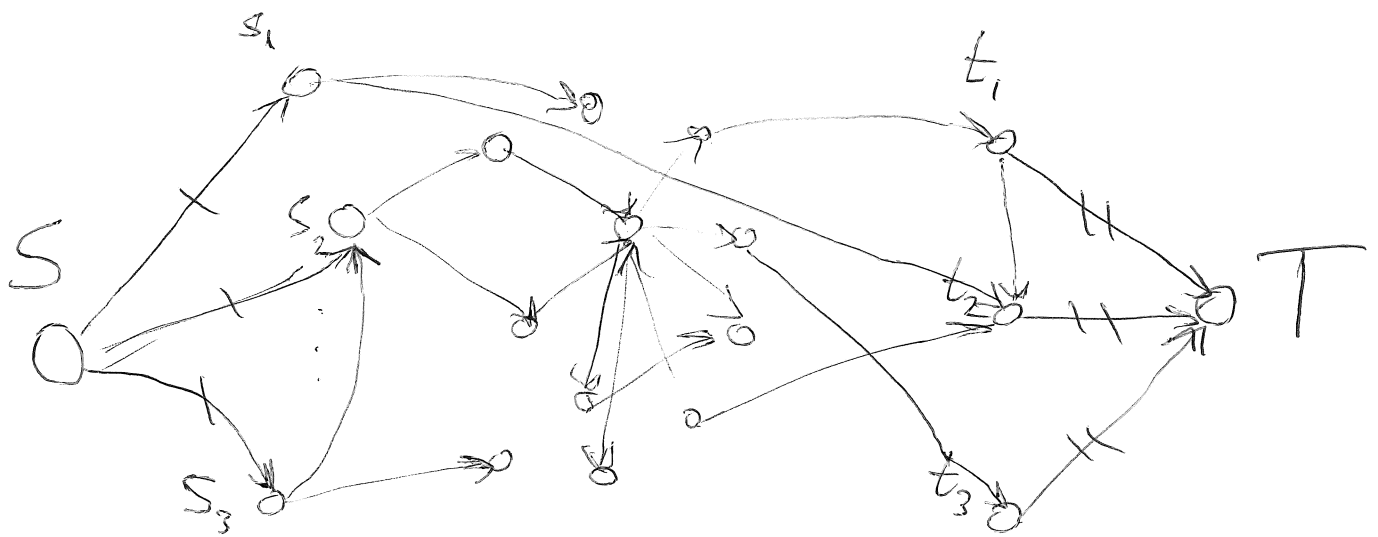


The constructed graph  $G$ .

The edges are there if the squares are adjacent.

# Exc 4

AL



$K=3$  edges have capacity 1.

There are 3 edge types:

$$\textcircled{1} \quad u \longrightarrow v \quad u, v \notin S, T$$

$$\textcircled{2} \quad S \xrightarrow{x} s_i$$

$$\textcircled{3} \quad t_i \xrightarrow{||} T$$

