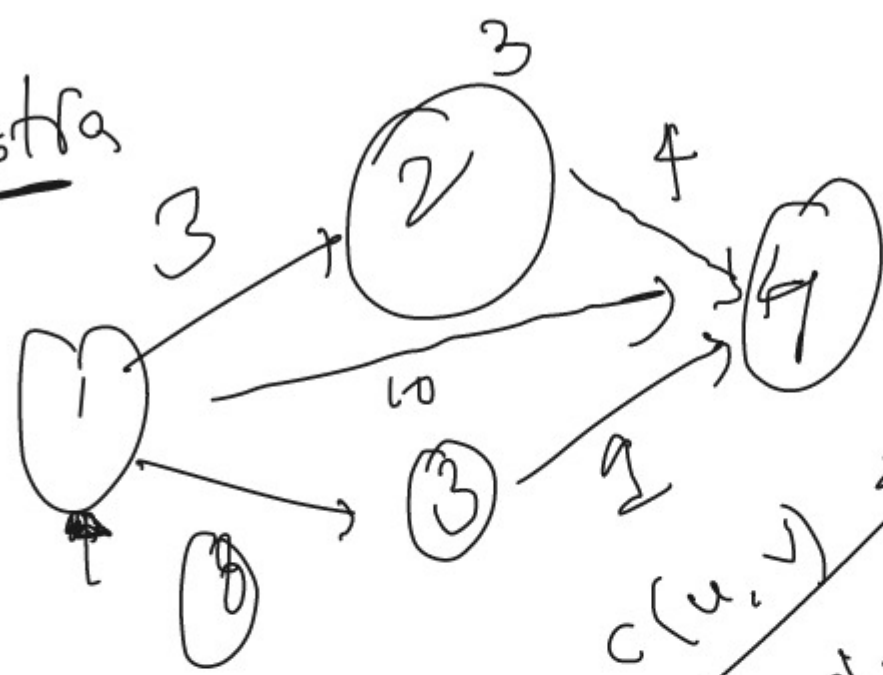
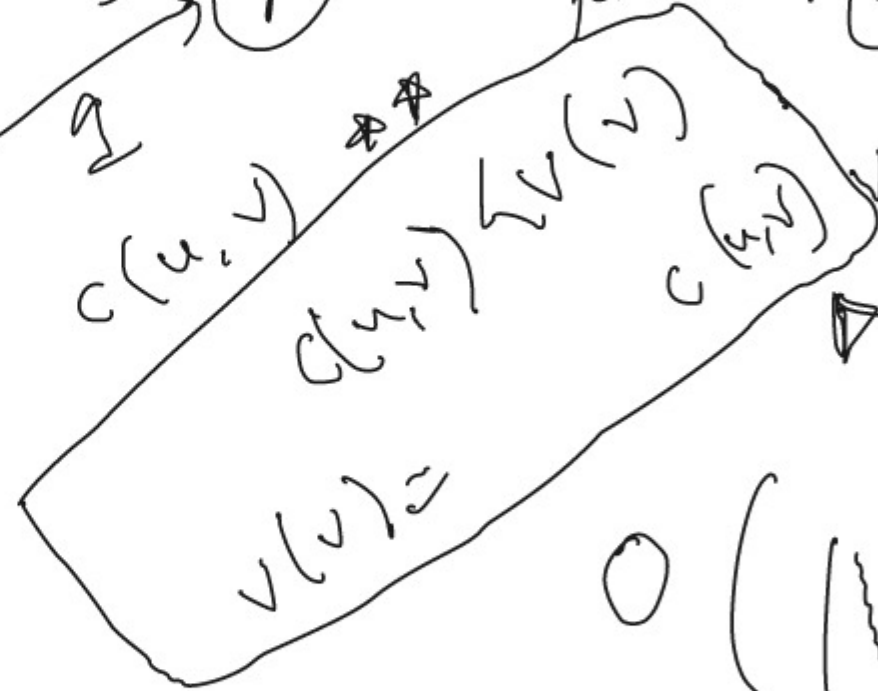


Dijkstra



visited  $\rightarrow 1, 2,$



key  $\rightarrow 0$  parent  $\rightarrow -1$

1 2 3 4

1 1 2 2

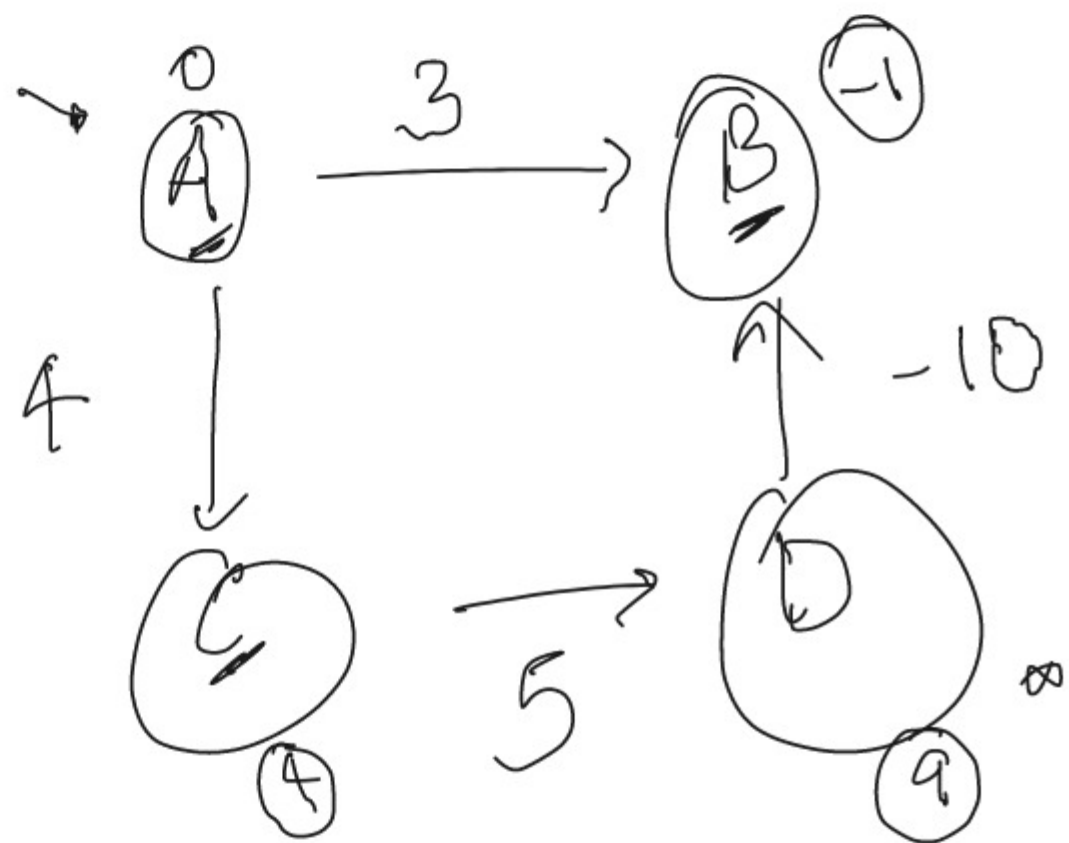
relaxation?

$E \rightarrow (v-1 \text{ to } v^2)$

$O((V+E) \log V) \rightarrow O(E \log V)$

MST

1	-	2	3
1	-	3	8
2	-	4	4



Dijkstra may or may not fail if -ve edge weights are present.

