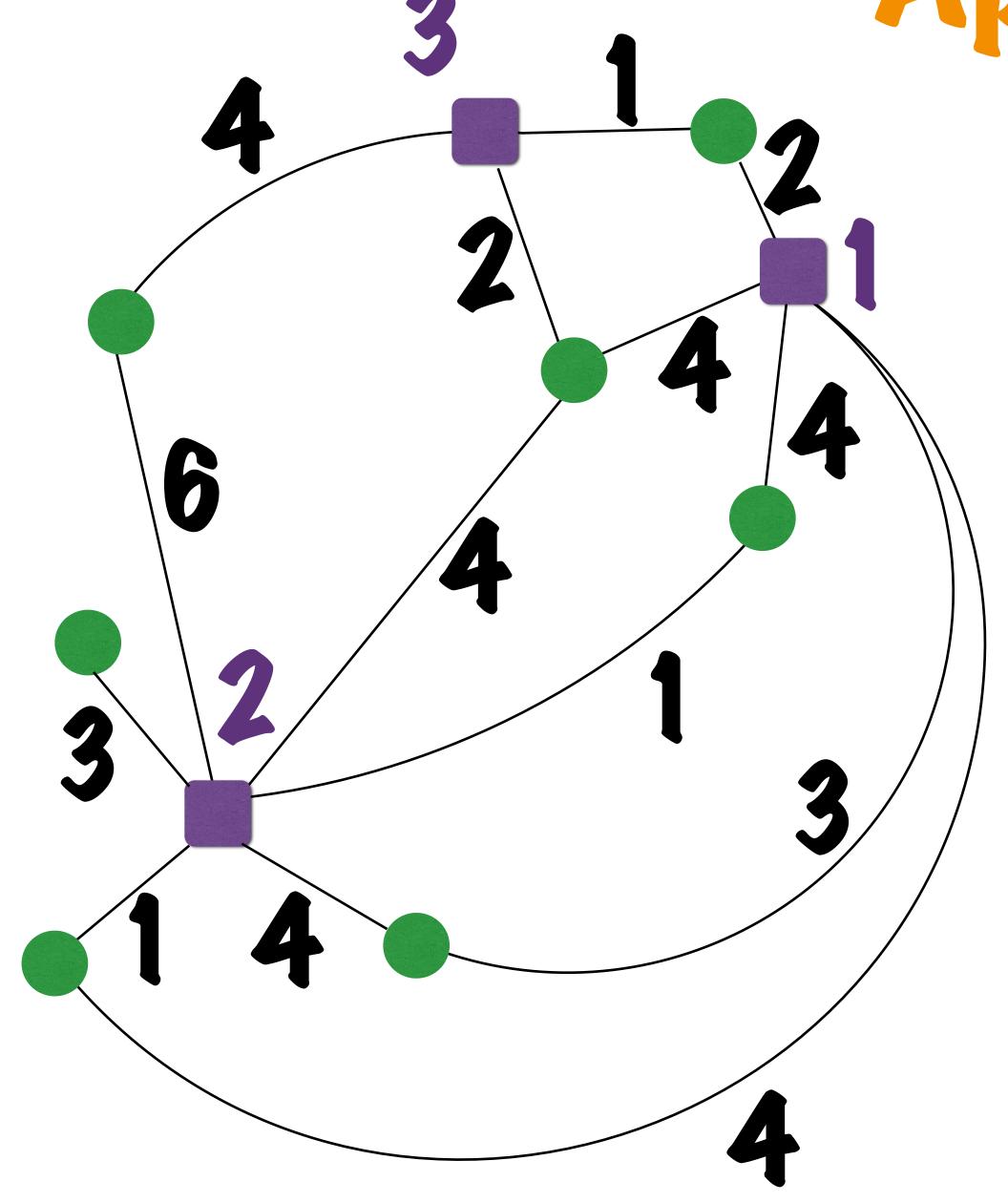
Facility location

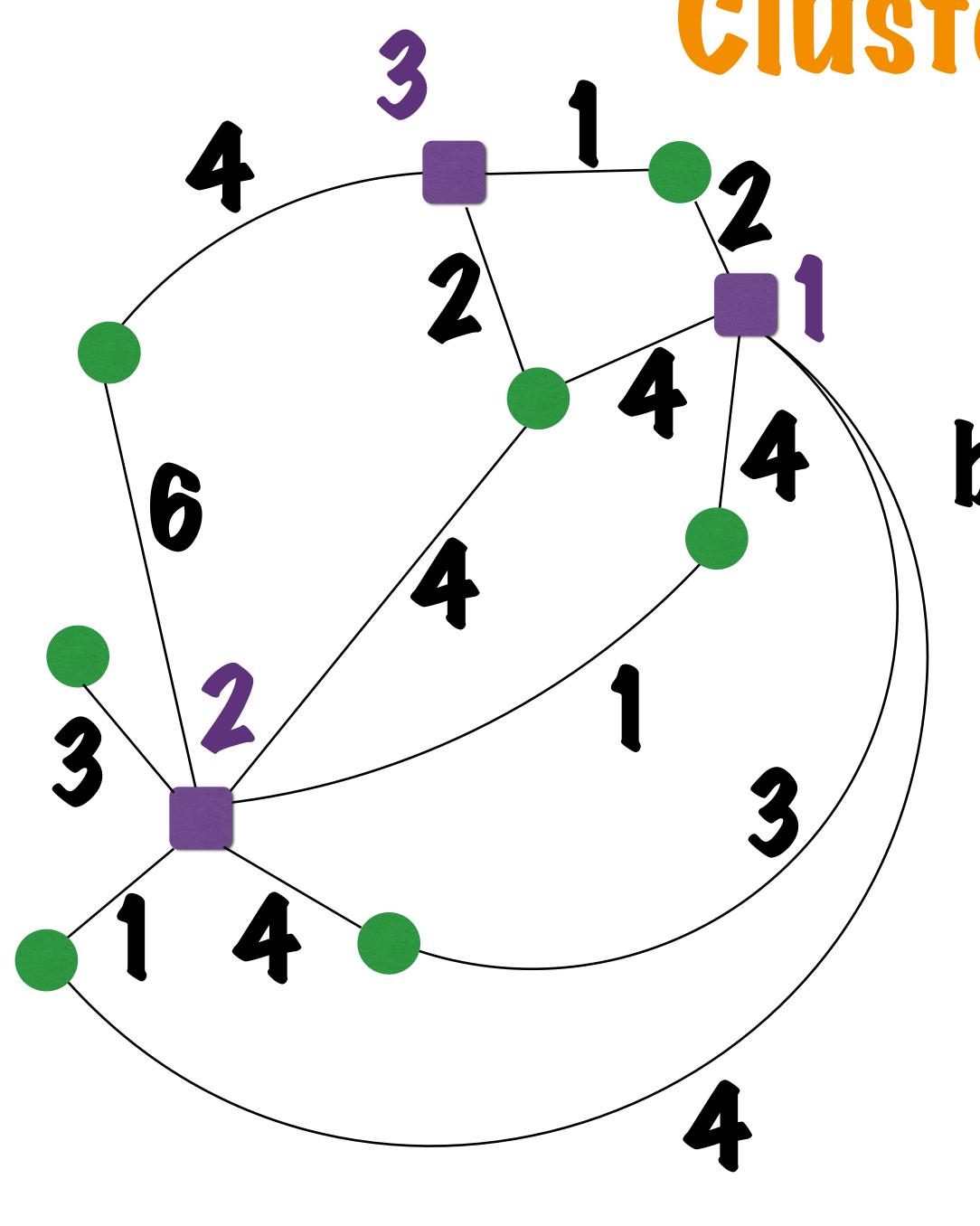


Appears in...



Deciding placements of factories, warehouses, schools, hospital. Deciding how to place servers on the web

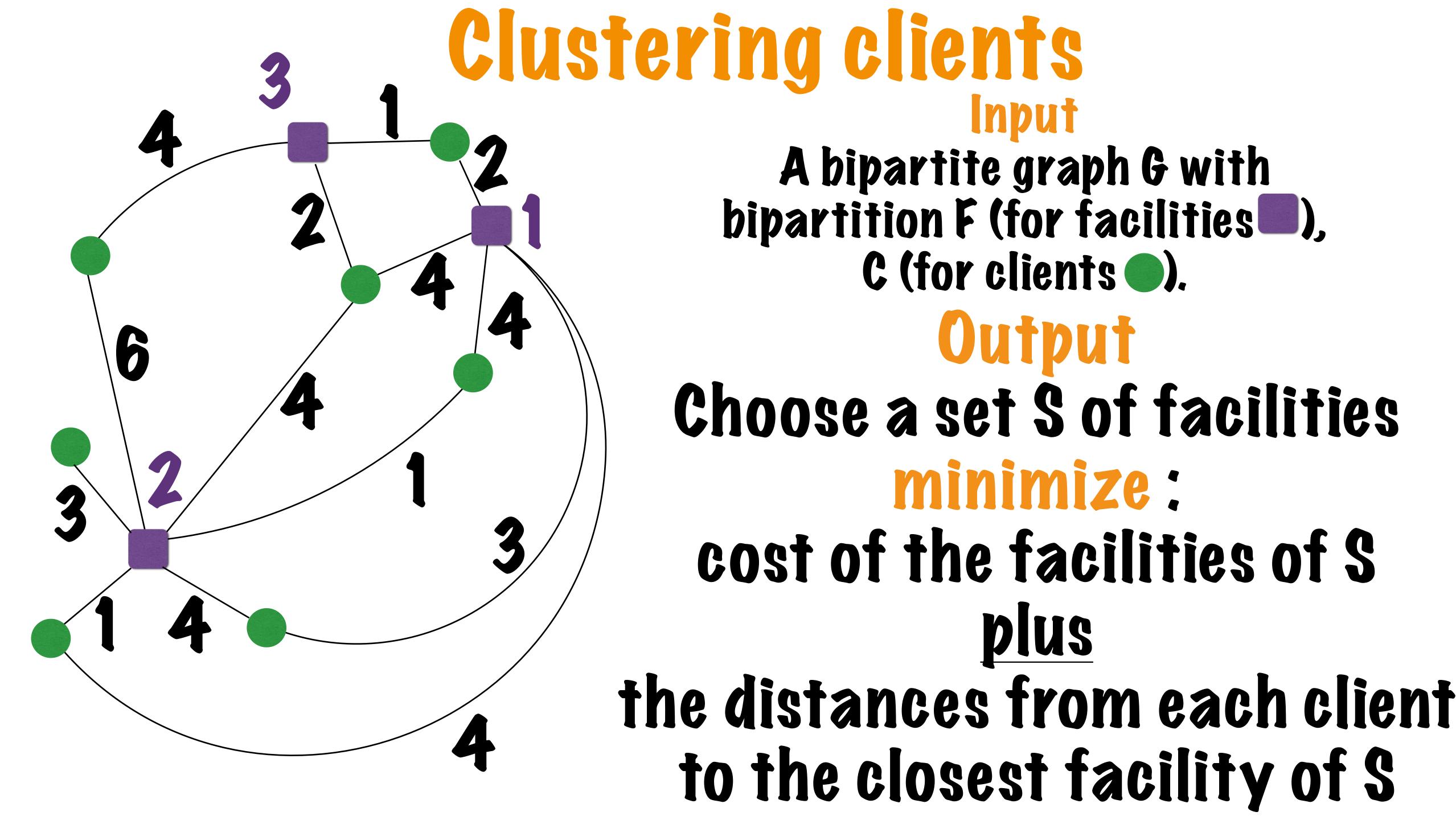
Clustering clients



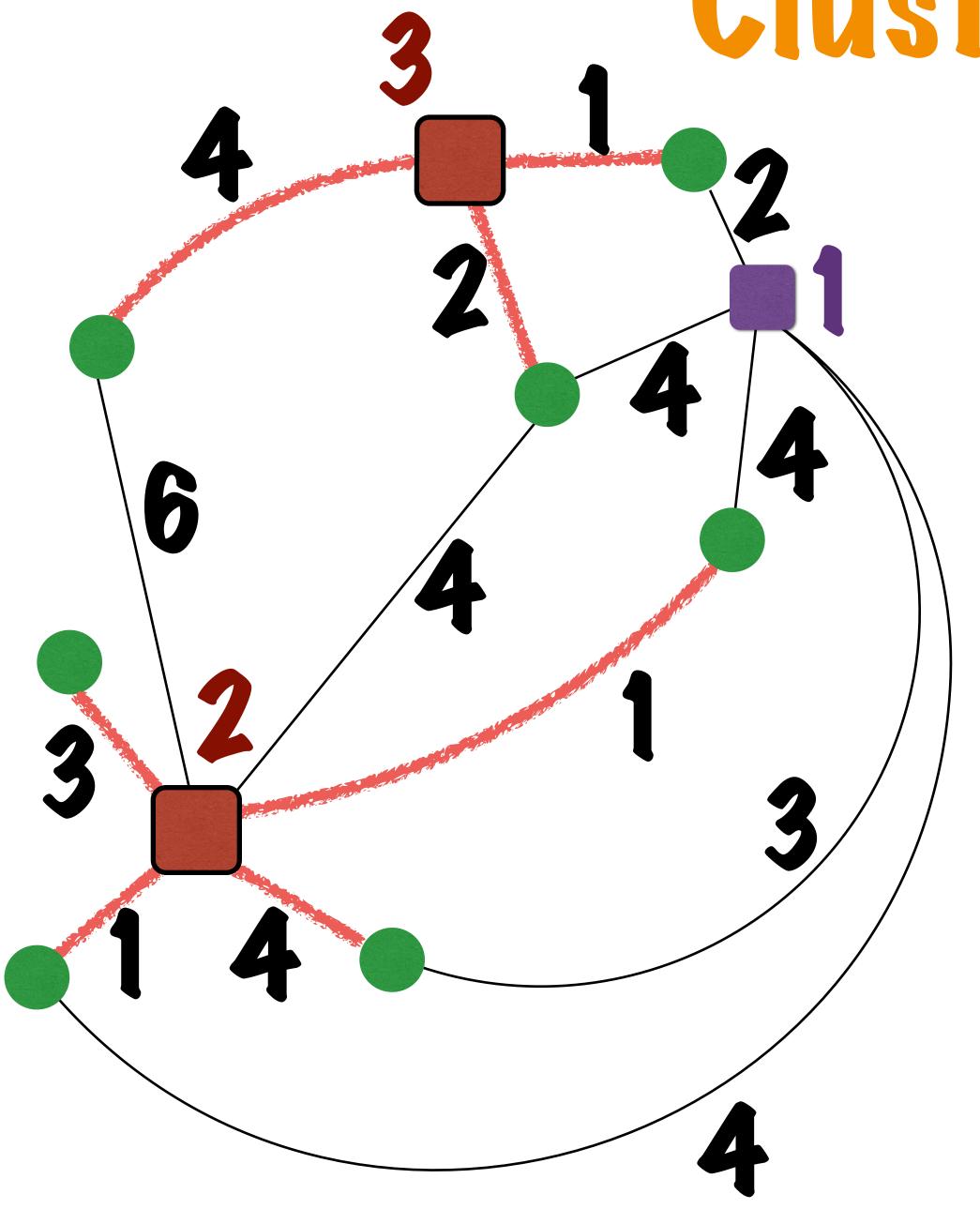
A bipartite graph G with bipartition F (for facilities), C (for clients).

 f_i : Cost of opening facility i

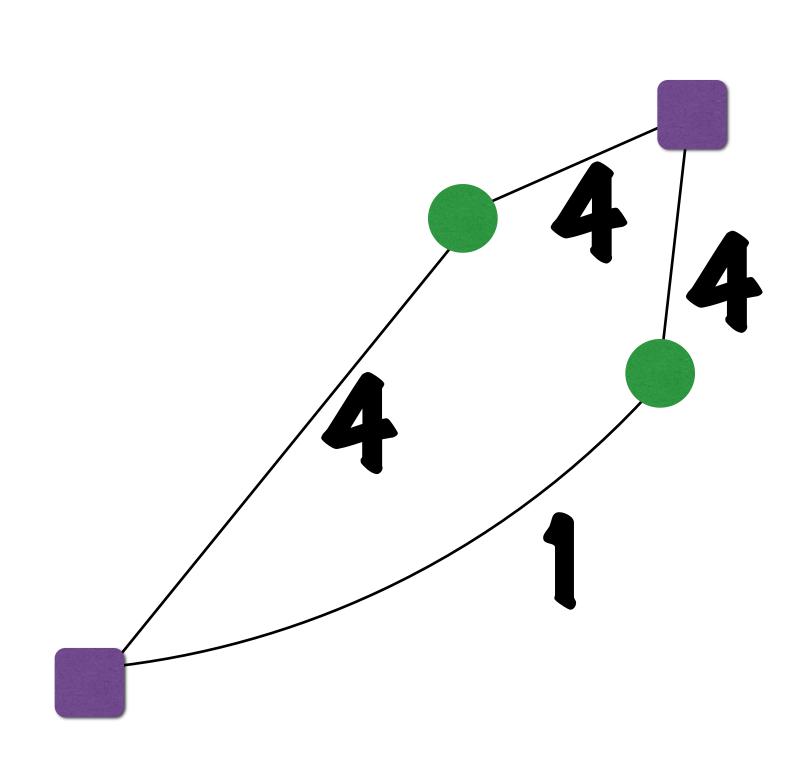
 c_{ij} : Distance from client j to facilityi



Clustering clients



Metric facility location



Triangle inequality:

$$c_{ij} + c_{j\ell} \geq c_{i\ell}$$

Facility location

