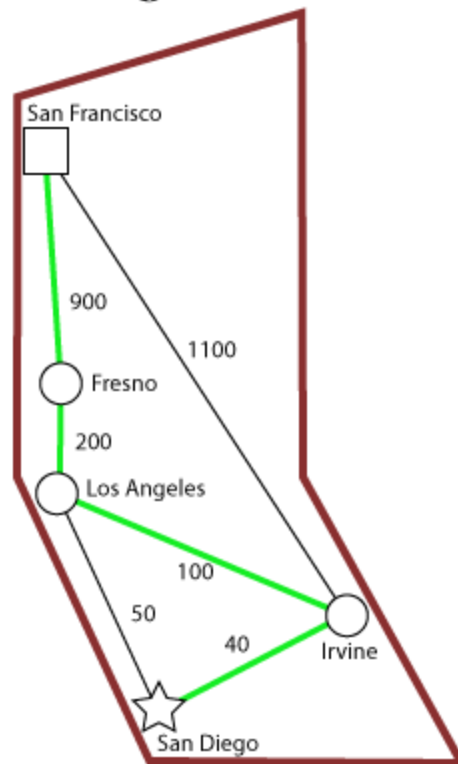
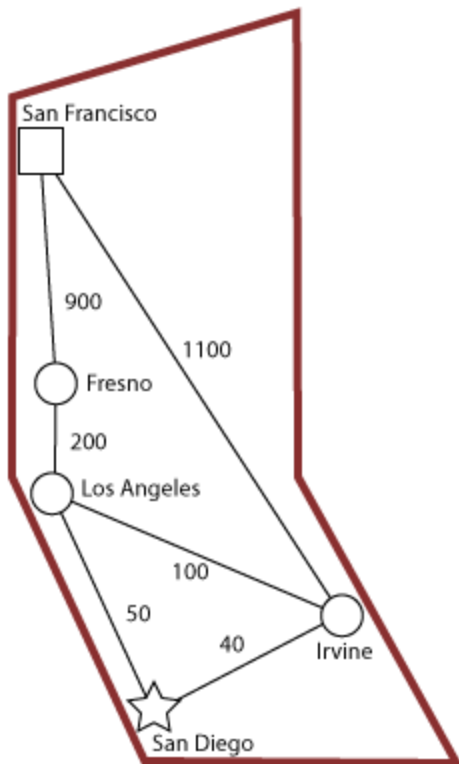


Dijkstra's



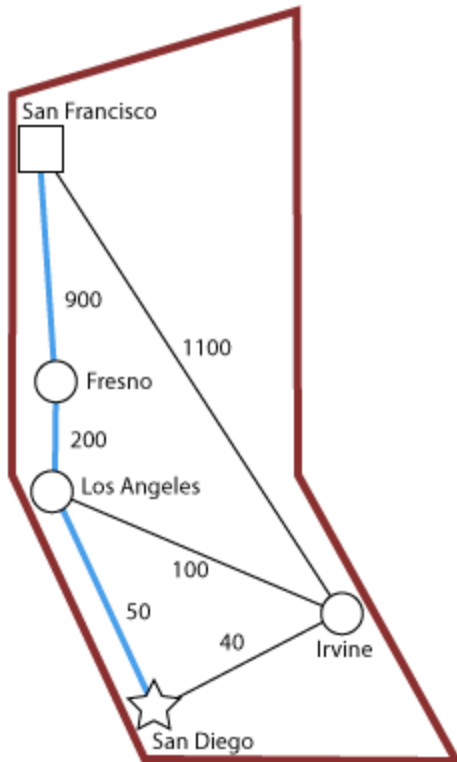
Problem: Find shortest route from
San Diego to San Francisco

City	Distance	Total
Irvine	40	40
Los Angeles	100	140
Fresno	200	340
San Francisco	900	1240

$$T_1 = 1240$$

A *

Evolution 1

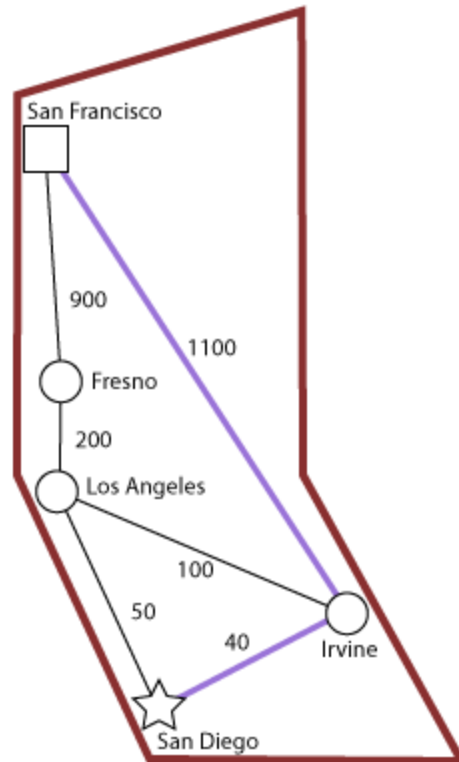


City	Distance	Total	< T1?
Los Angeles	50	50	Y
Fresno	200	250	Y
San Francisco	900	1150	Y

$$T_2 = 1150$$

A *

Evolution 2



City	Distance	Total	< T ₂ ?
Irvine	40	40	Y
San Francisco	900	1140	Y

$$T_3 = 1140$$