## Traveling Salesperson Problem (TSP)



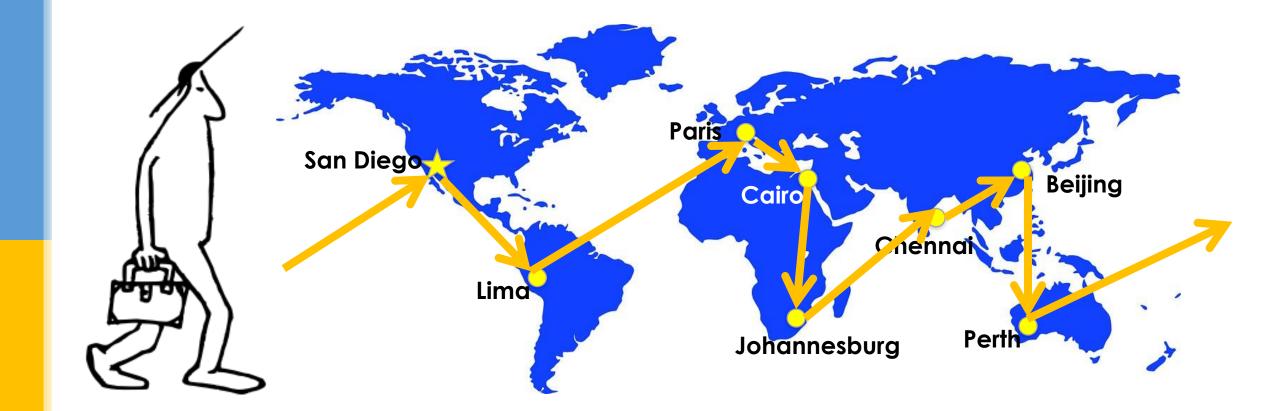
## By the end of this video you will be able to...

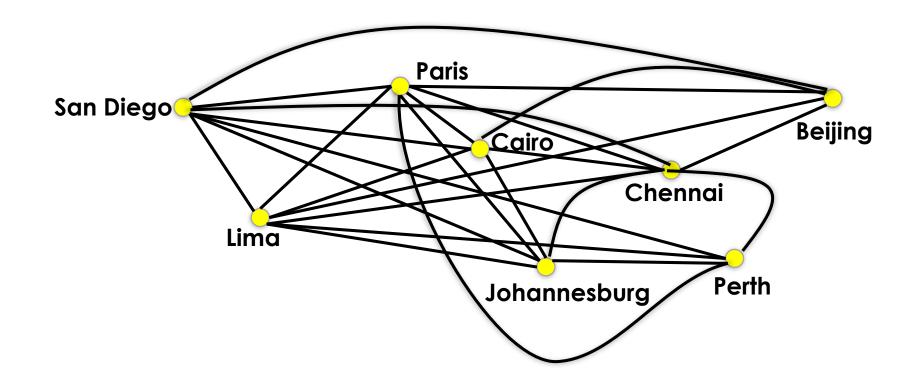
Describe the traveling salesperson problem











	SD	Lima	Paris	Chen.	Cairo	Perth	Beij.	J'berg
SD	0	6,091	9,144	14,587	12,276	15,078	10,234	16,575
Lima	6,091	0	10,248	17,540	12,414	14,924	16,637	10,872
Paris	9,144	10,248	0	8,031	3210	14,269	8,212	8,295
Chen.	14,587	17,540	8,031	0	5,360	6,276	4,615	7,133
Cairo	12,276	12,414	3210	5,360	0	11,258	7,540	6,260
Perth	15,078	14,924	14,269	6,276	11,258	0	7,985	8,308
Beij.	10,234	16,637	8,212	4,615	7,540	7,985	0	11,699
J'berg	16,575	10,872	8,295	7,133	6,260	8,308	11,699	0

In TSP, given n cities with one Hometown and all pairwise distances, plan a tour starting and ending at Hometown that visits every city exactly once and has minimum distance.

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http://www.math.uwaterloo.ca/tsp/index.html