

HNSW Search: Finding the Nearest City to Berlin

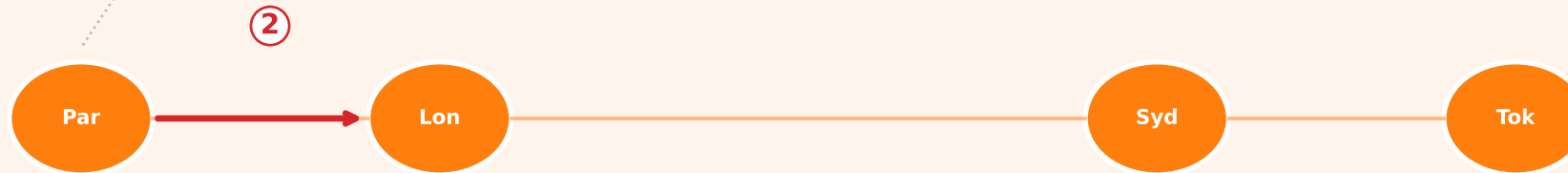
Query: Berlin

①

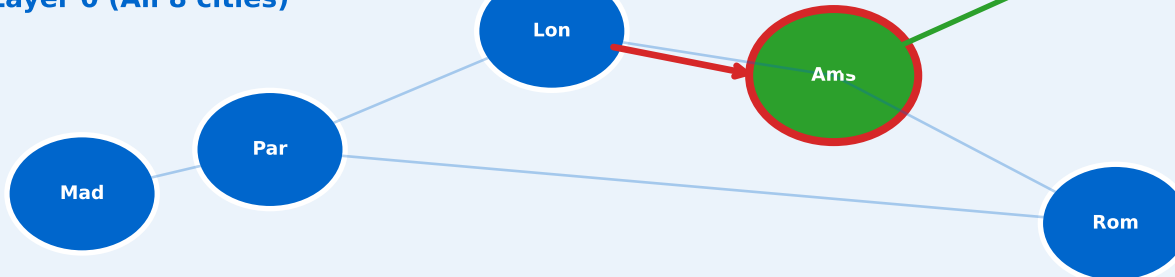
Layer 2 (2 entry points)



Layer 1 (4 cities)



Layer 0 (All 8 cities)



Search Path

- 1 Check entry points
Paris closer than Tokyo
- 2 Descend, check neighbors
London closer than Paris
- 3 Bottom layer search
Amsterdam is nearest!

Total: 9 comparisons (not 8!)