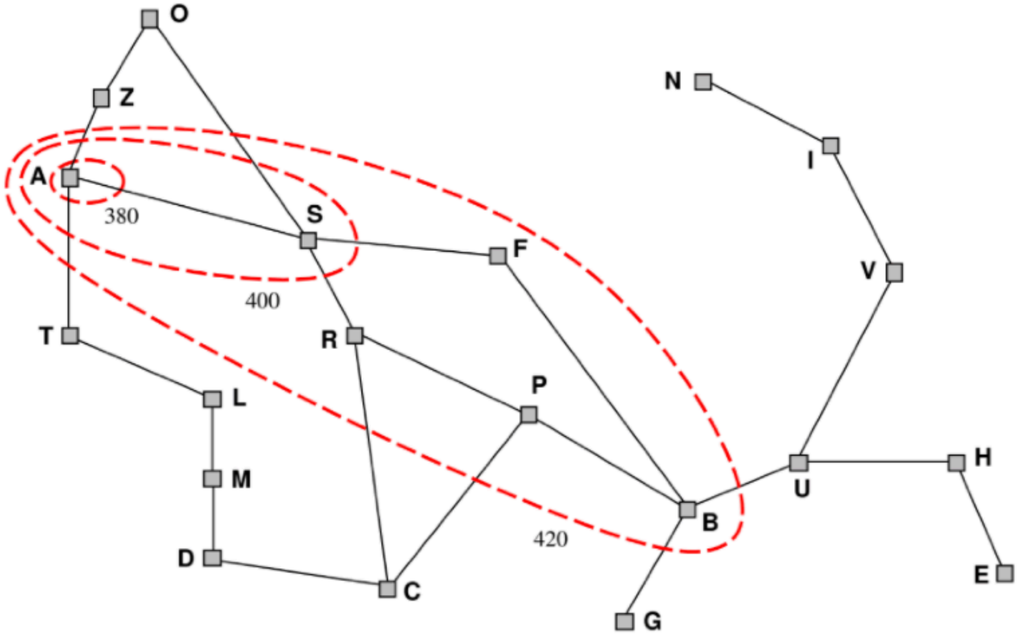
Sample complexity



- $f = g + h$ contours
- Complete if $n : f(n) \leq f(G) = f^*(G)$ finite
- Space complexity $|\{n : f(n) \leq f(G) = f^*(G)\}|$
- Time complexity: $f(S)$ increase to $f(G) = f^*(S)$
- $\tilde{\mathcal{O}}\left(b^{(f^*(S)-f(S))/\varepsilon}\right)$, (not covered, skip if you want)
  - ε: minimal difference between successive f

Practice

Real heuristic functions

- $h(a) = 4$
- $h(b) = 2$
- $h(c) = 4$
- $h(d) = 4.5$
- $h(e) = 2$