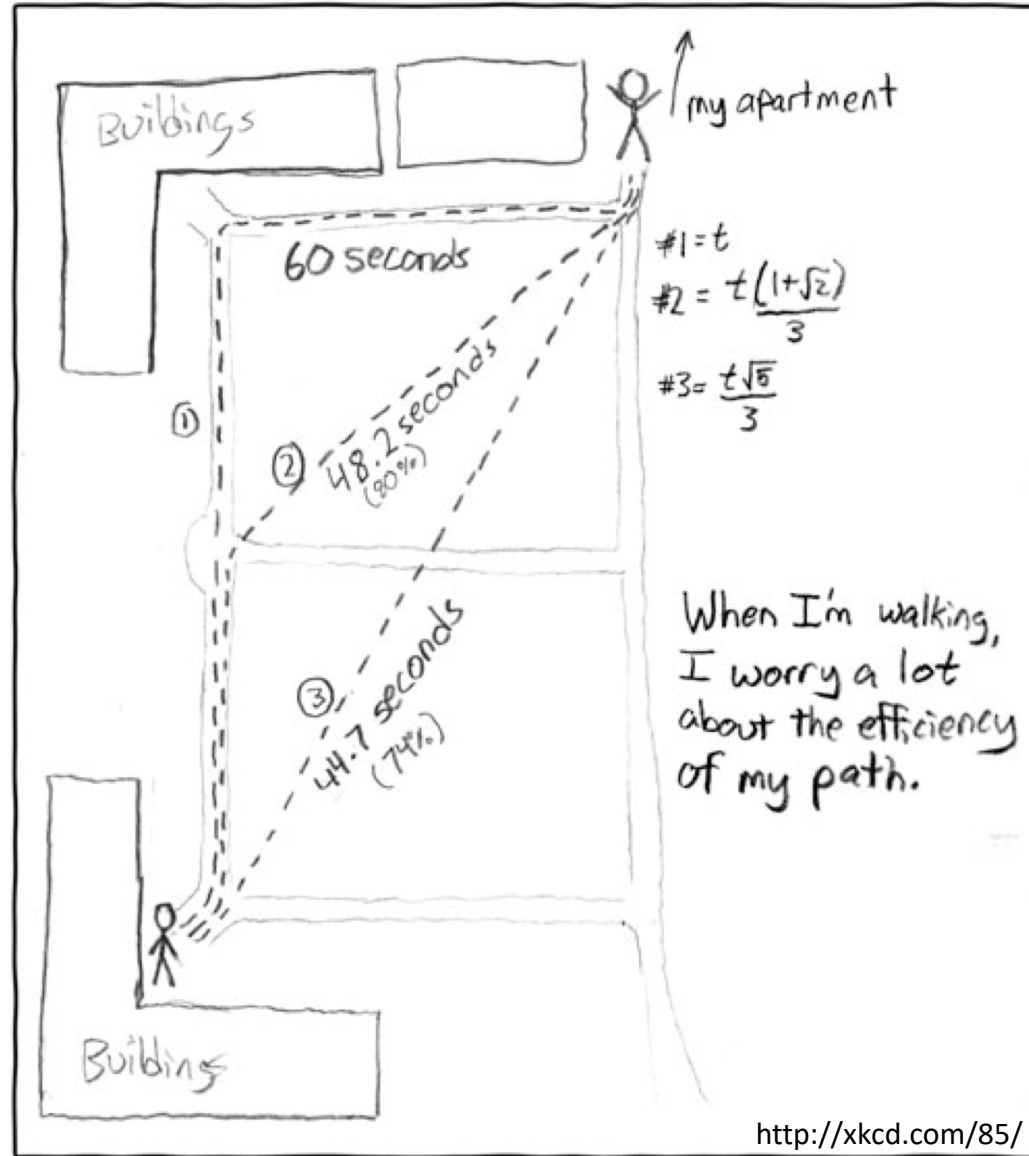# Lecture 18

CSE 331

Mar 12, 2021

Shortest Path Problem

Another more important application

Is BGP a known acronym for you?
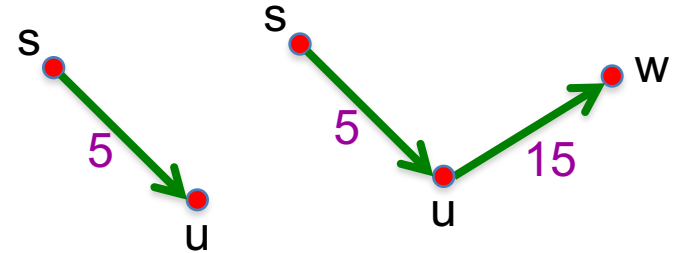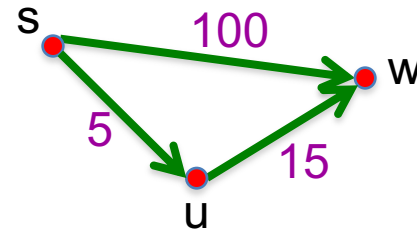

Routing uses shortest path algorithm

Shortest Path problem

Input: *Directed* graph G=(V,E)

Edge lengths, l_e for e in E

"start" vertex s in V

Output: Length of shortest paths from s to all nodes in V

Dijkstra's shortest path algorithm

E. W. Dijkstra (1930-2002)