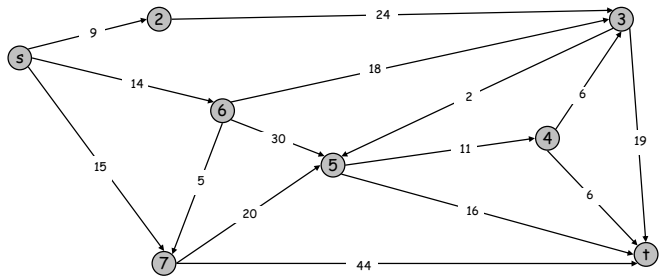


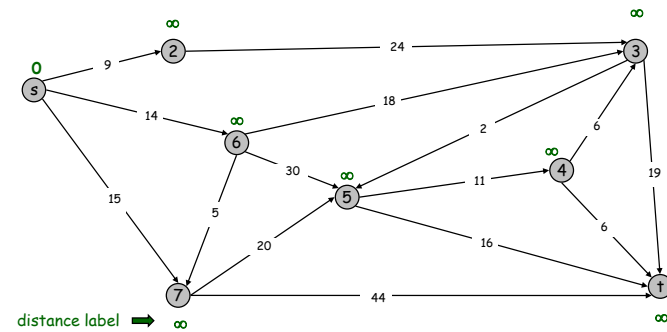
Dijkstra's Shortest Path Algorithm

Find shortest path from s to t.



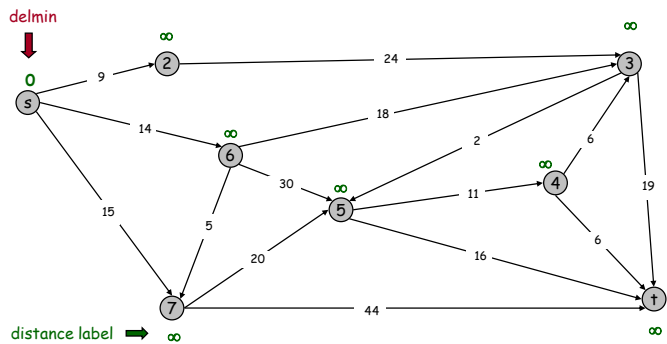
1

Dijkstra's Shortest Path Algorithm

 $S = \{ \}$
 $PQ = \{ s, 2, 3, 4, 5, 6, 7, t \}$


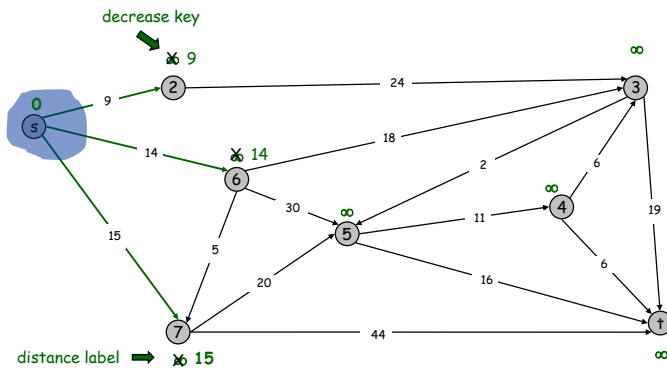
2

Dijkstra's Shortest Path Algorithm

 $S = \{ \}$
 $PQ = \{ s, 2, 3, 4, 5, 6, 7, t \}$


3

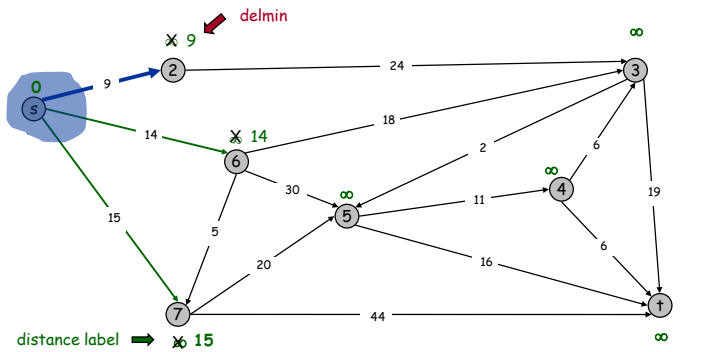
Dijkstra's Shortest Path Algorithm

 $S = \{ s \}$
 $PQ = \{ 2, 3, 4, 5, 6, 7, t \}$


4

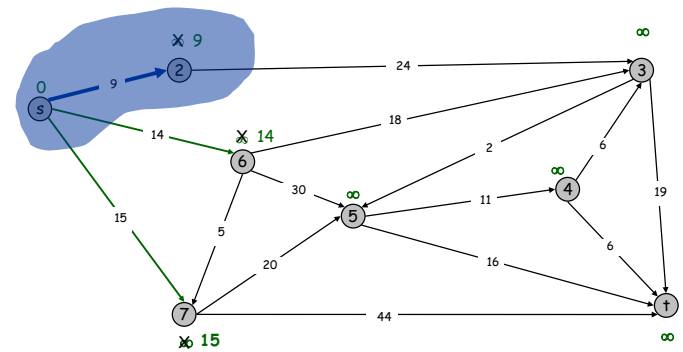
Dijkstra's Shortest Path Algorithm

$S = \{s\}$
 $PQ = \{2, 3, 4, 5, 6, 7, t\}$



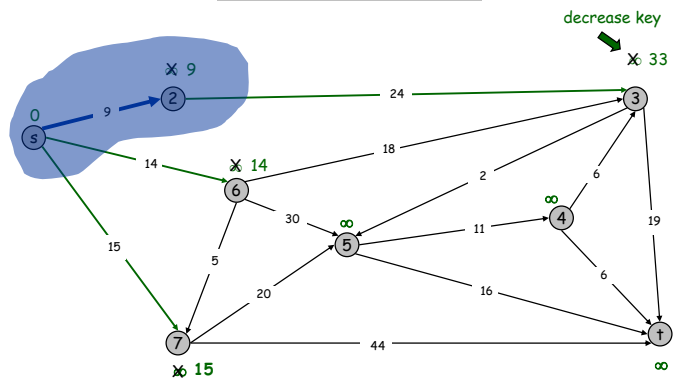
Dijkstra's Shortest Path Algorithm

$S = \{s, 2\}$
 $PQ = \{3, 4, 5, 6, 7, t\}$



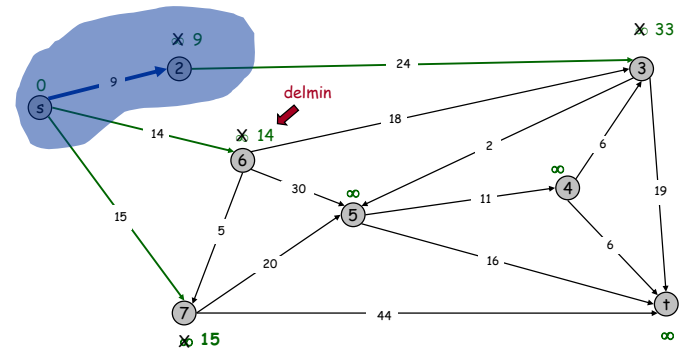
Dijkstra's Shortest Path Algorithm

$S = \{s, 2\}$
 $PQ = \{3, 4, 5, 6, 7, t\}$



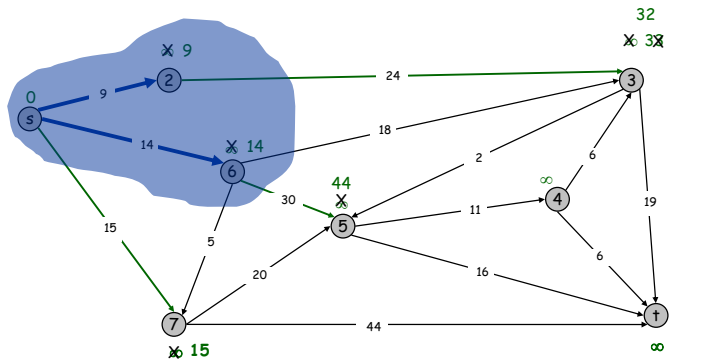
Dijkstra's Shortest Path Algorithm

$S = \{s, 2\}$
 $PQ = \{3, 4, 5, 6, 7, t\}$



Dijkstra's Shortest Path Algorithm

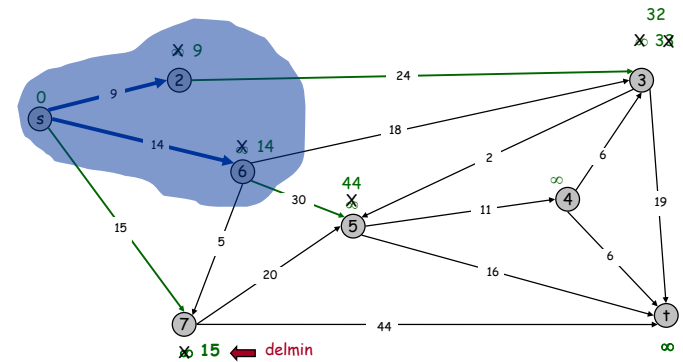
$S = \{s, 2, 6\}$
 $PQ = \{3, 4, 5, 7, t\}$



9

Dijkstra's Shortest Path Algorithm

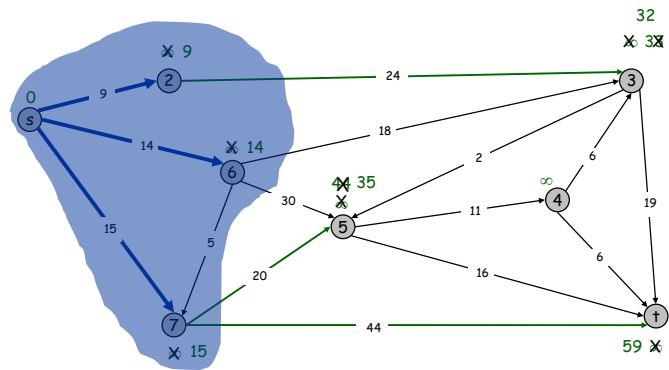
$S = \{s, 2, 6\}$
 $PQ = \{3, 4, 5, 7, t\}$



10

Dijkstra's Shortest Path Algorithm

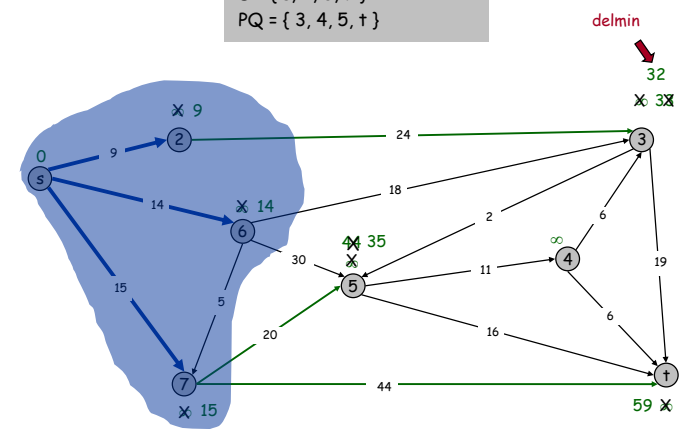
$S = \{s, 2, 6, 7\}$
 $PQ = \{3, 4, 5, t\}$



11

Dijkstra's Shortest Path Algorithm

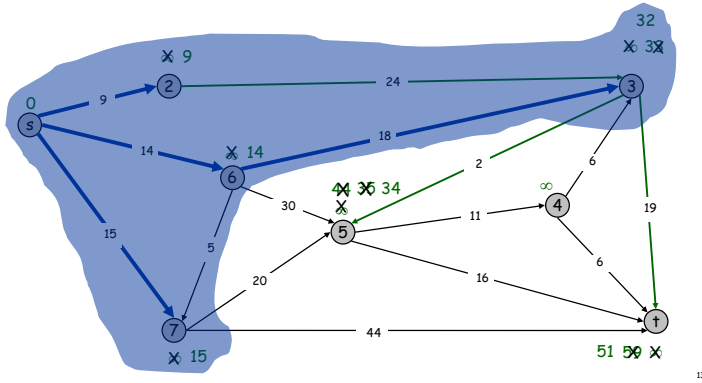
$S = \{s, 2, 6, 7\}$
 $PQ = \{3, 4, 5, t\}$



12

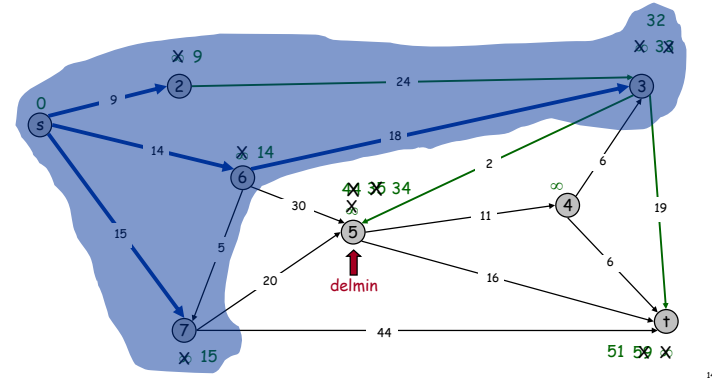
Dijkstra's Shortest Path Algorithm

$S = \{s, 2, 3, 6, 7\}$
 $PQ = \{4, 5, t\}$



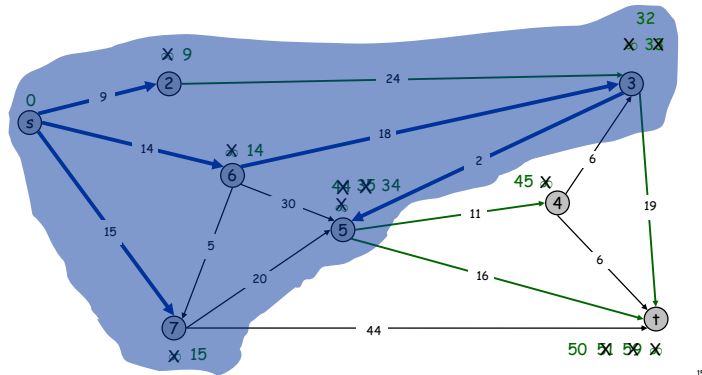
Dijkstra's Shortest Path Algorithm

$S = \{s, 2, 3, 6, 7\}$
 $PQ = \{4, 5, t\}$



Dijkstra's Shortest Path Algorithm

$S = \{s, 2, 3, 5, 6, 7\}$
 $PQ = \{4, t\}$



Dijkstra's Shortest Path Algorithm

$S = \{s, 2, 3, 5, 6, 7\}$
 $PQ = \{4, t\}$

