

Pop off vertex E and push on its neighbors

Vertex:	S	B	C	D	F	E
Distances:	0	4	$\infty$	$\infty$	5	6

Priority Queue:  $[\{C, 7\}, \{D, 10\}]$

Pop off vertex C and push on its neighbors

Vertex:	S	B	C	D	F	E
Distances:	0	4	7	$\infty$	5	6

Priority Queue:  $[\{D, 10\}]$

Pop off vertex D and push on its neighbors

Vertex:	S	B	C	D	F	E
Distances:	0	4	7	10	5	6

We now have visited every vertex in the weighted graph of  $G$  and our priority queue is now empty.

Priority Queue:  $[\ ]$