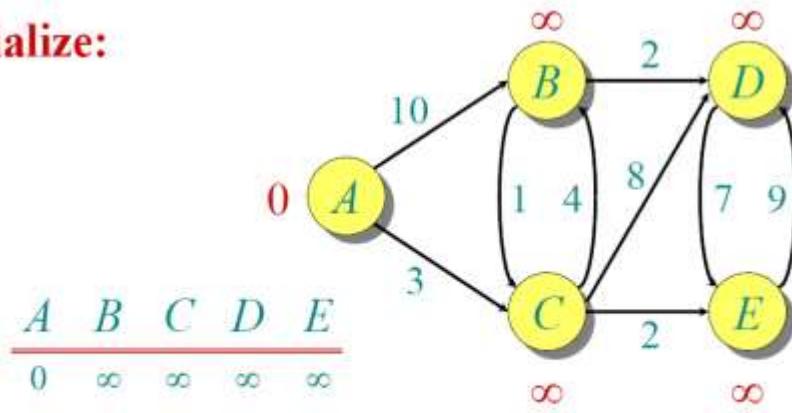
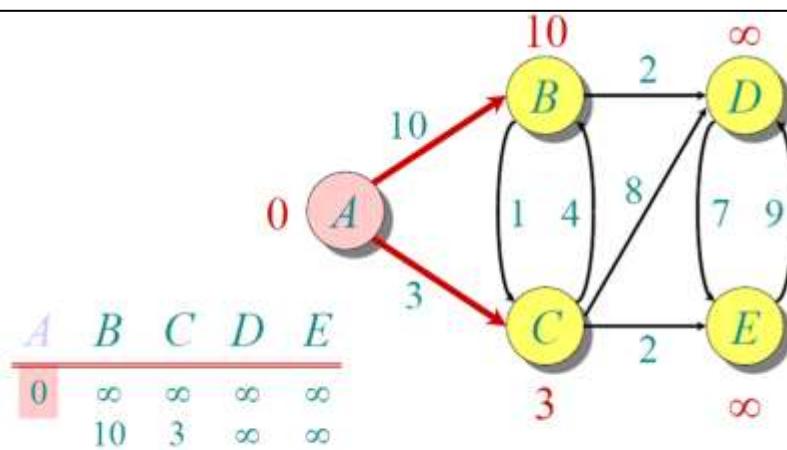
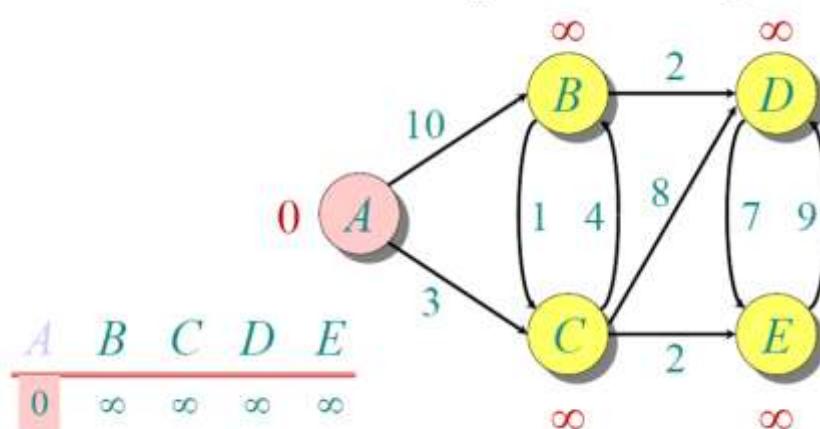


### Example of Dijkstra Algorithm

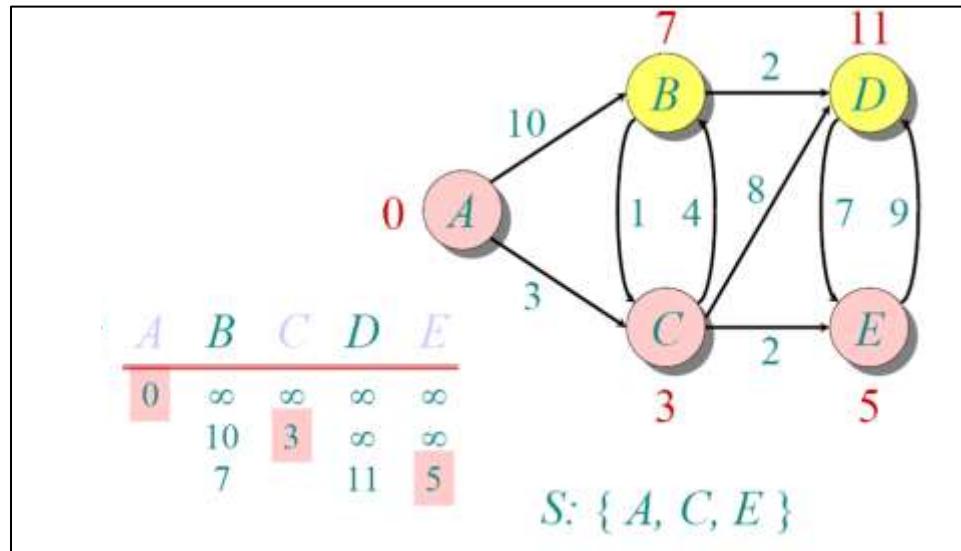
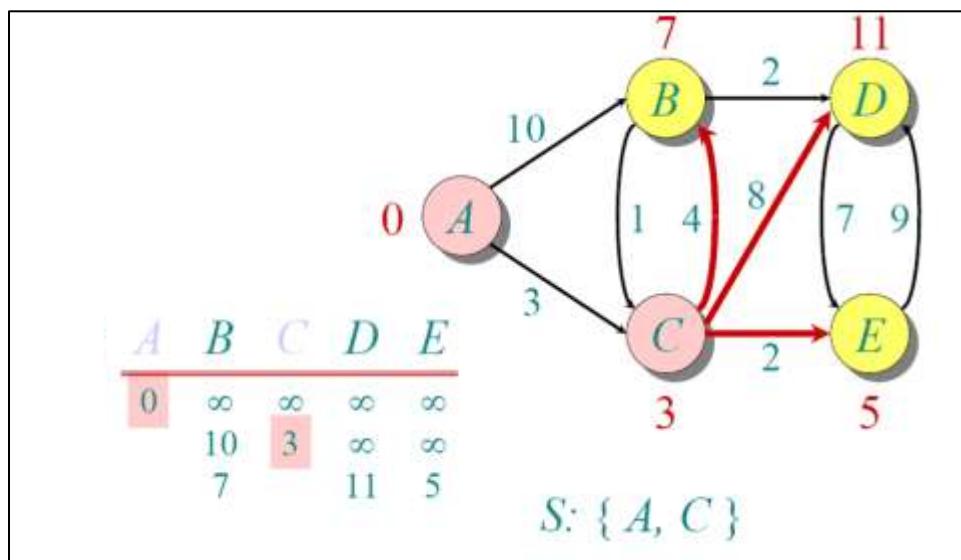
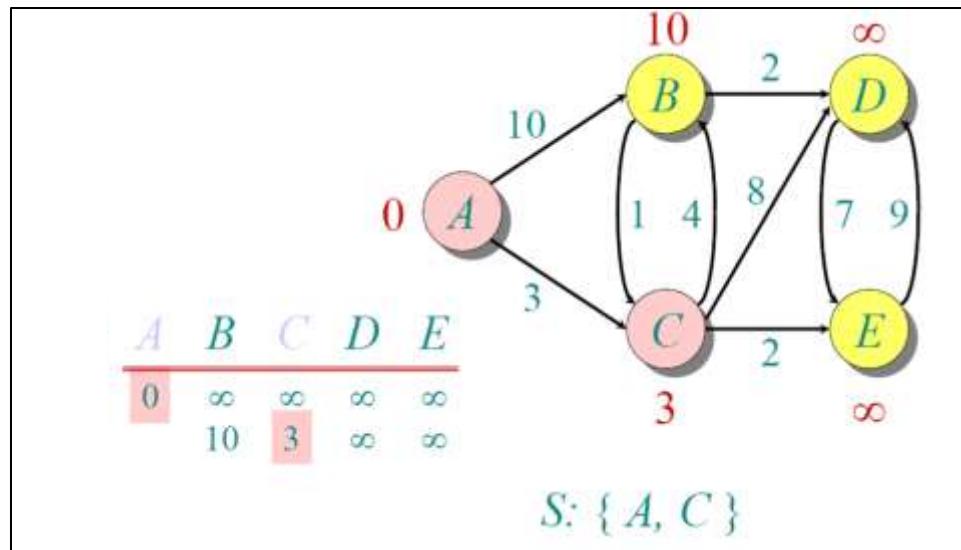
**Initialize:**

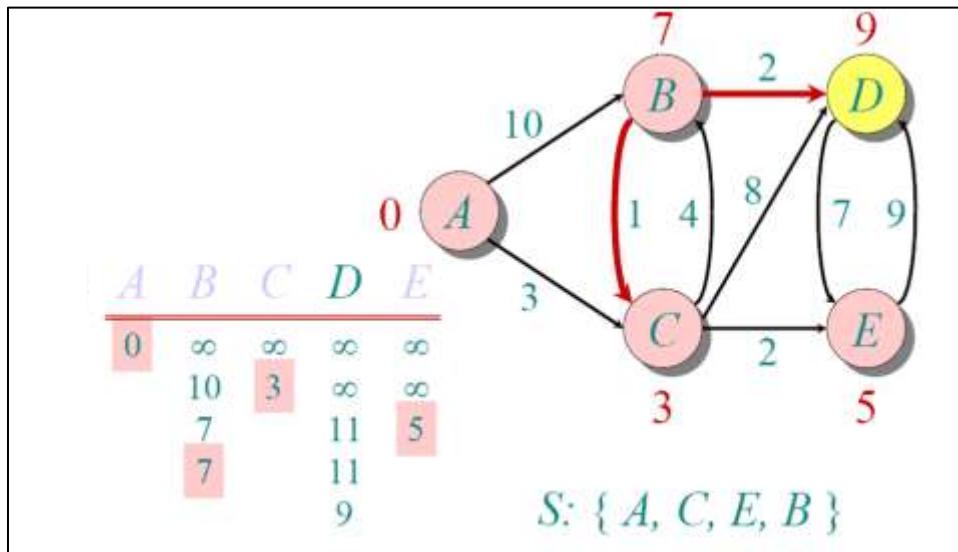
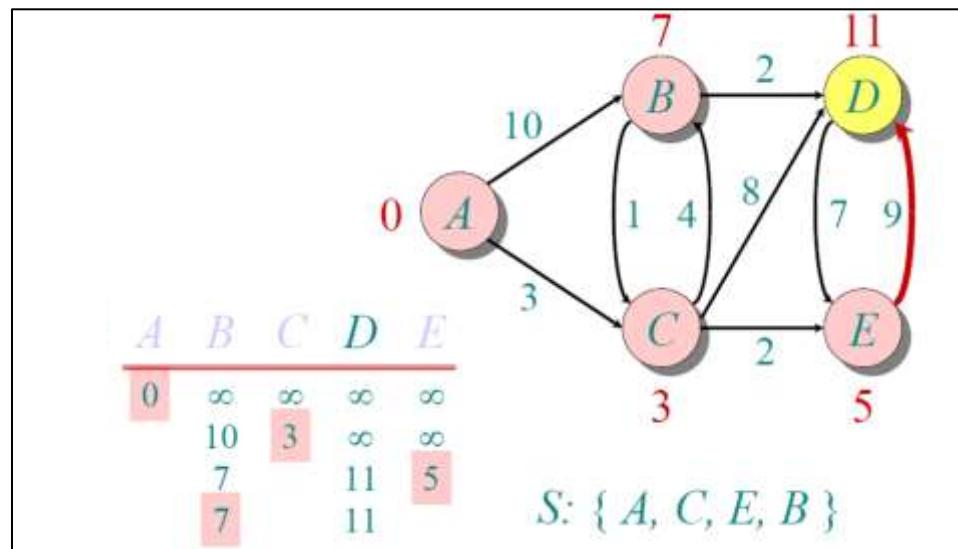
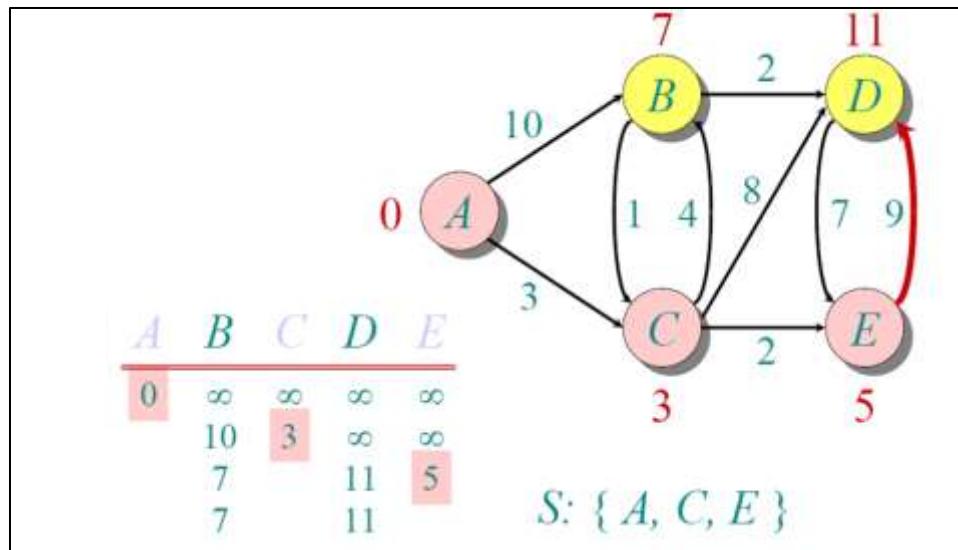


$S: \{\}$

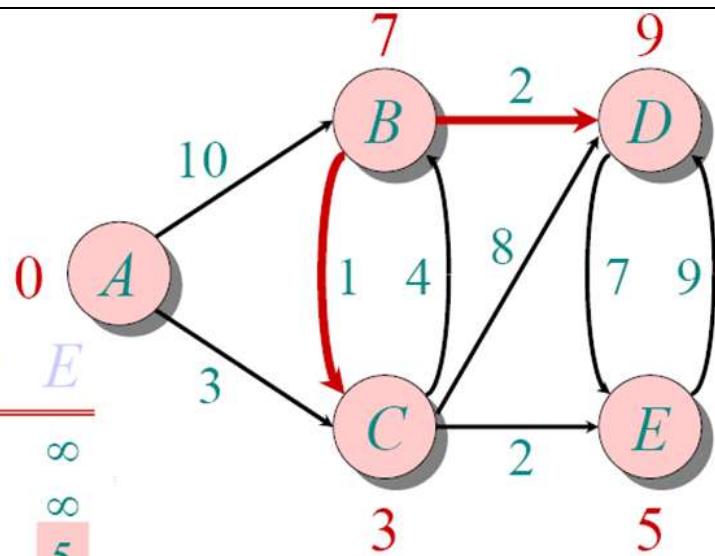


$S: \{ A \}$





$A$	$B$	$C$	$D$	$E$
0	$\infty$	$\infty$	$\infty$	$\infty$
10	3	$\infty$	$\infty$	
7		11	5	
7		11		9



$S: \{ A, C, E, B, D \}$