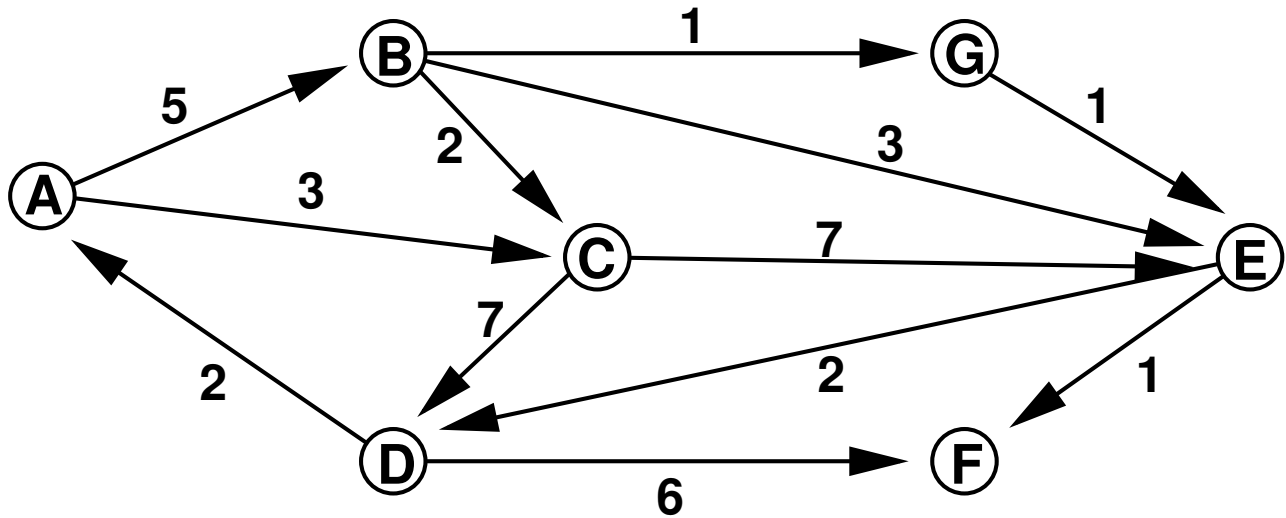
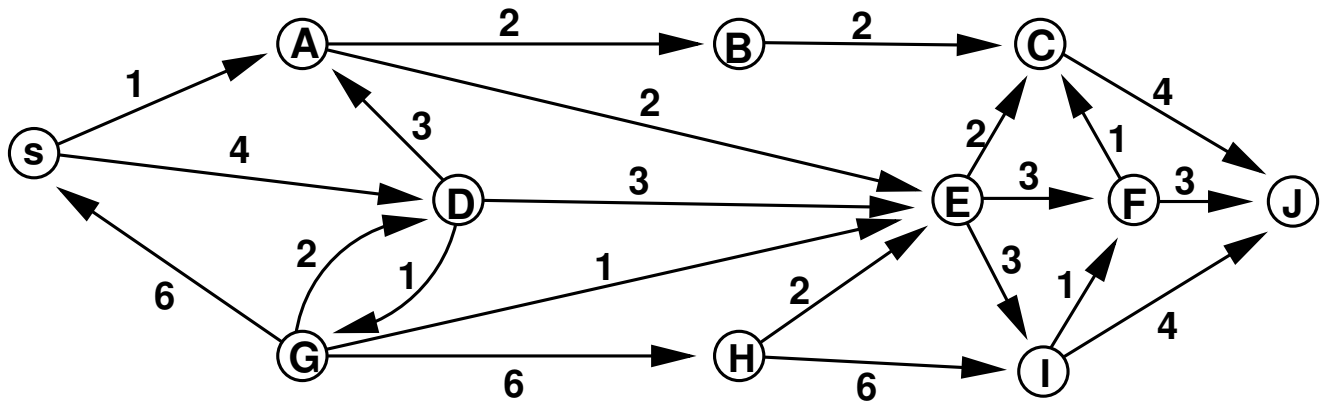


1. Find the shortest path from A to all other vertices using Dijkstra's algorithm for the graph shown below. Show the sets S , $V-S$, and values for $Short(i)$ for all i in V .



Step	S	$V - S$	$short(i)$						
			A	B	C	D	E	F	G
0	A	BCDEFG	0						
1			0						
2			0						
3			0						
4			0						
5			0						
6			0						

2. Find the shortest path from s to all other vertices using Dijkstra's algorithm for the graph shown below. Show the sets S , $V-S$, and values for $\text{Short}(i)$ for all i in V .



Step	S	$V - S$	$short(i)$											
			s	A	B	C	D	E	F	G	H	I	J	
0	s	ABCDEFGHIJ	0											
1			0											
2			0											
3			0											
4			0											
5			0											
6			0											
7			0											
8			0											
9			0											
10			0											