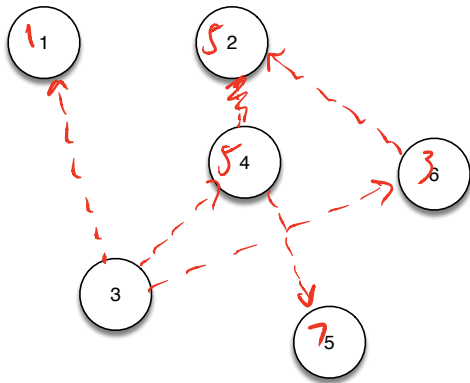
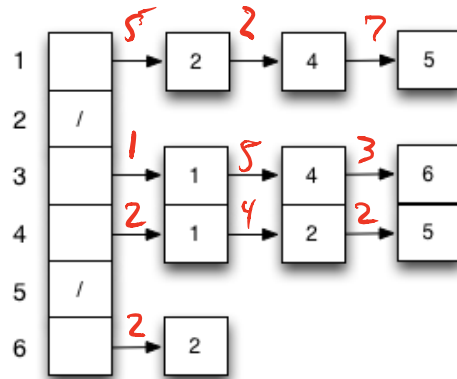
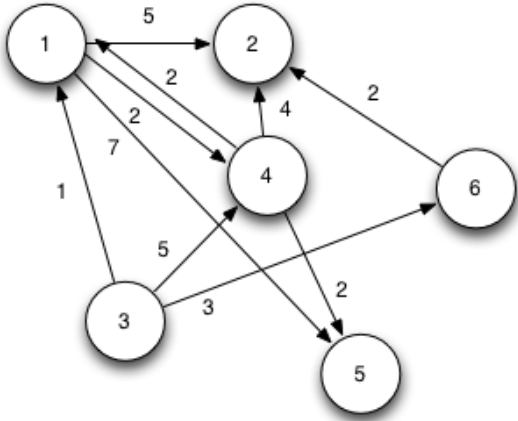
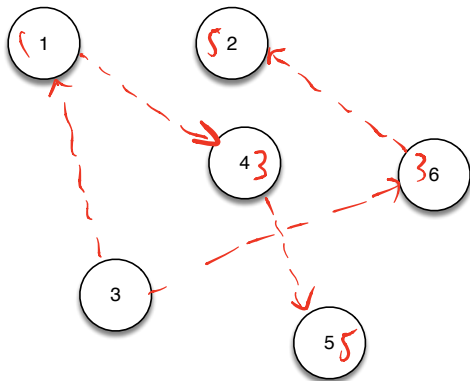


Show the execution of the Bellman-Ford algorithm using *vertex 3* as the source. Fill in the d and π values for each edge relaxation pass.



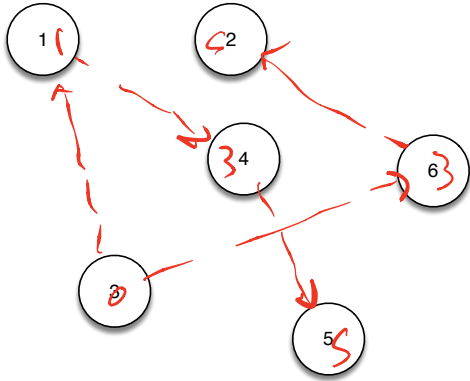
	1	2	3	4	5	6
d	1	5	0	3	5	3
π	3	4	/	3	4	4

Pass 1



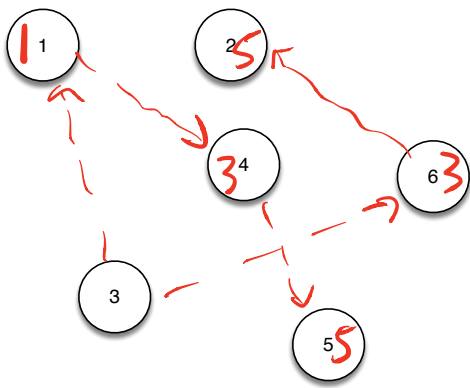
	1	2	3	4	5	6
d	1	5	0	3	5	3
π	3	4	/	3	4	4

Pass 2



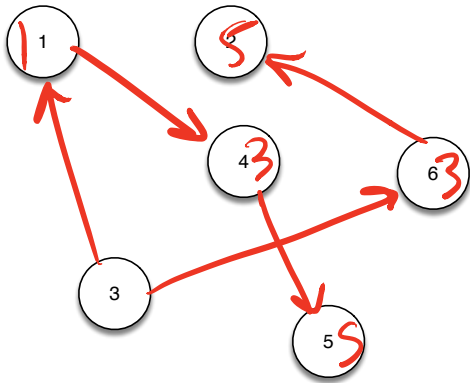
	1	2	3	4	5	6
d	1	5	0	3	5	3
π	3	6	/	1	4	3

Pass 3



	1	2	3	4	5	6
d	1	5	0	3	5	3
π	3	6	/	1	4	3

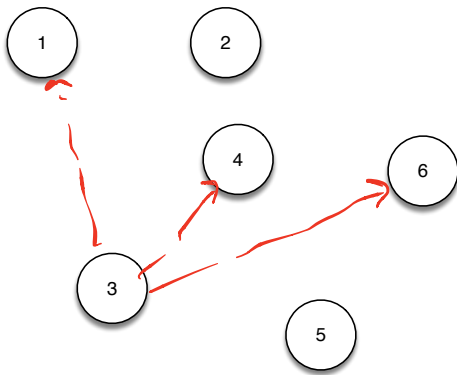
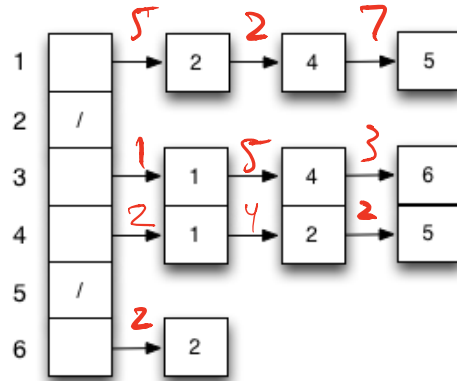
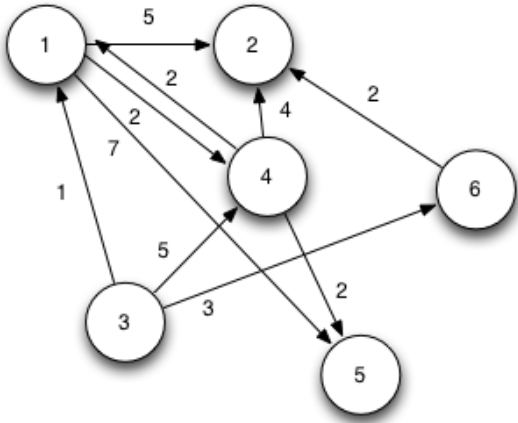
Pass 4



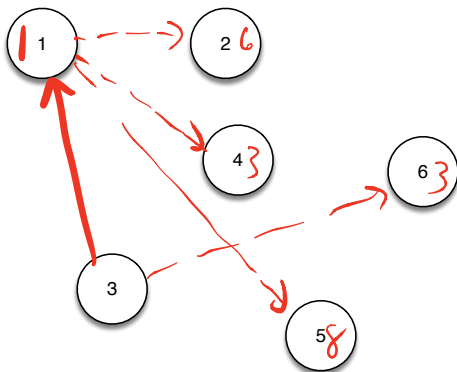
	1	2	3	4	5	6
d	1	5	0	3	5	3
π	3	6	/	1	4	3

Pass 5

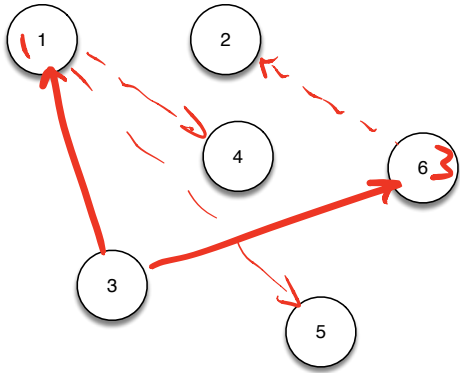
Show the execution of Dijkstra's algorithm using *vertex 3* as the source. Fill in the chart for the final d and π values, indicate the edges used in the shortest paths, and list the order that the vertices were *removed* from the queue during the execution of the algorithm.



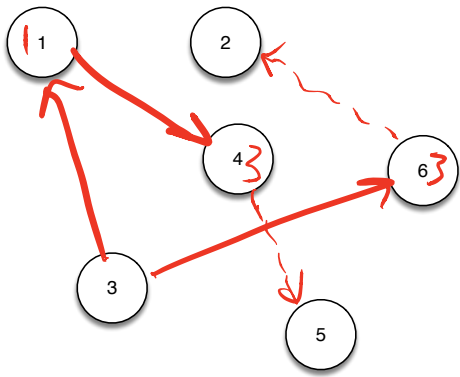
key	u	pi
1	1	3
3	6	3
3	8	4
6	6	2
8	4	5



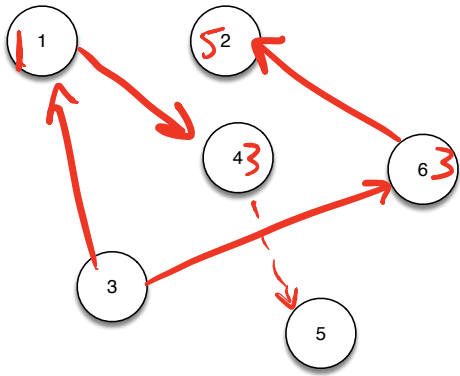
key	u	pi
3	6	3
3	4	1
5	6	2
8	5	1



key	u	pi
3	4	1
5	2	6
8	5	4



key	u	pi
5	2	6
5	5	4



key	u	pi
5	5	4

