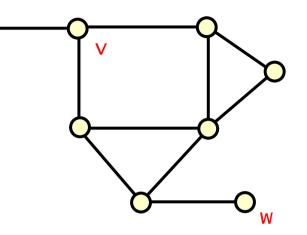
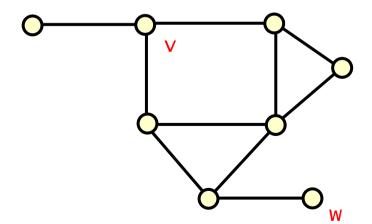
Distance between v and w

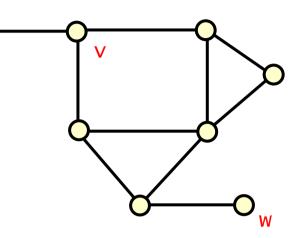
- assign distance to v to be 0
- carry out a breadth-first search from v
- when visiting a new vertex for first time assign its distance to be 1+ the distance to its predecessor in the BF spanning tree

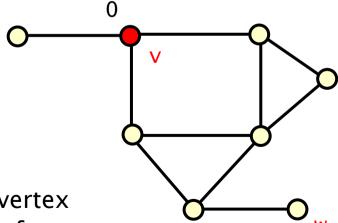




Distance between v and w

- assign distance to v to be 0
- carry out a breadth-first search from v
- when visiting a new vertex for first time
 assign its distance to be 1+ the distance
 to its predecessor in the BF spanning tree

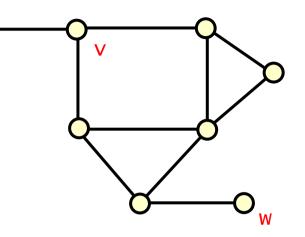


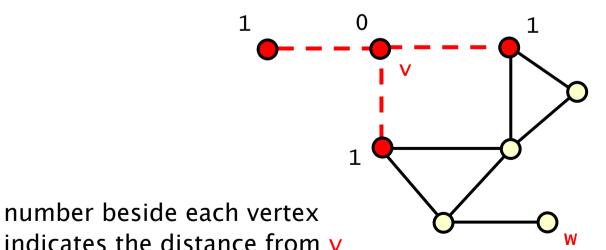


number beside each vertex indicates the distance from v

Distance between v and w

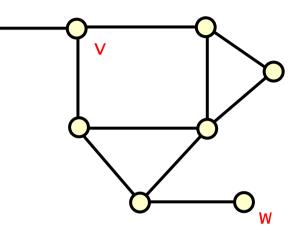
- assign distance to v to be 0
- carry out a breadth-first search from v
- when visiting a new vertex for first time assign its distance to be 1+ the distance to its predecessor in the BF spanning tree

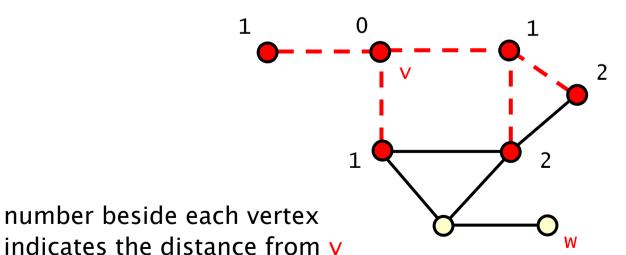




Distance between v and w

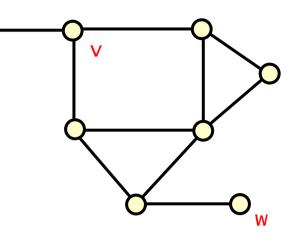
- assign distance to v to be 0
- carry out a breadth-first search from v
- when visiting a new vertex for first time
 assign its distance to be 1+ the distance
 to its predecessor in the BF spanning tree

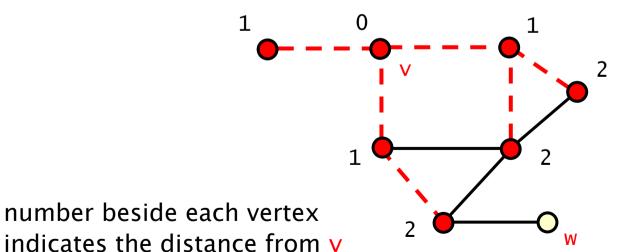




Distance between v and w

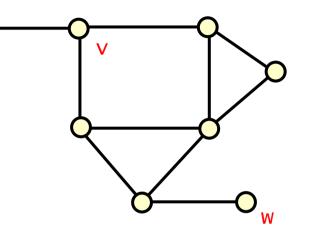
- assign distance to v to be 0
- carry out a breadth-first search from v
- when visiting a new vertex for first time assign its distance to be 1+ the distance to its predecessor in the BF spanning tree

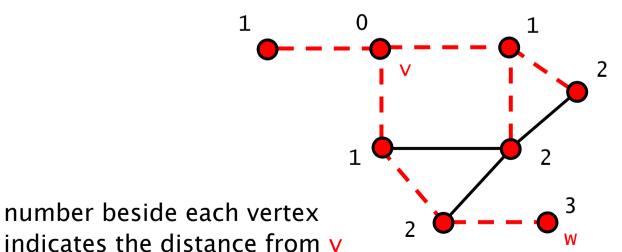




Distance between v and w

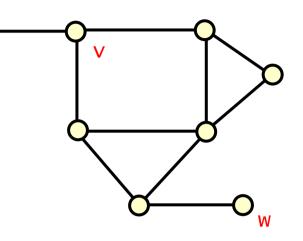
- assign distance to v to be 0
- carry out a breadth-first search from v
- when visiting a new vertex for first time assign its distance to be 1+ the distance to its predecessor in the BF spanning tree

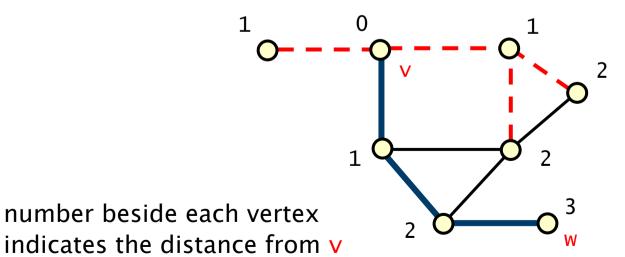




Distance between v and w

- assign distance to v to be 0
- carry out a breadth-first search from v
- when visiting a new vertex for first time assign its distance to be 1+ the distance to its predecessor in the BF spanning tree





shortest path