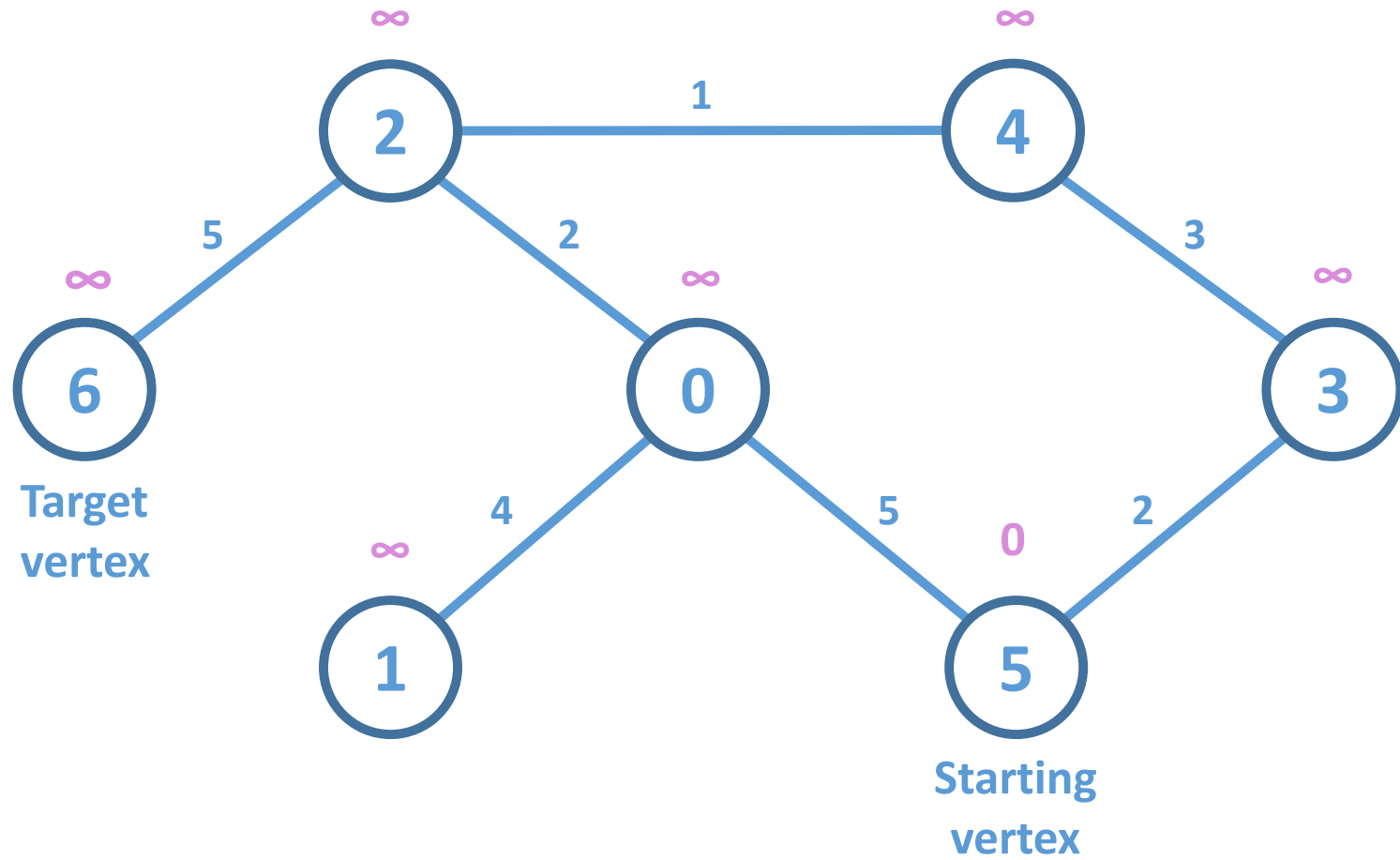
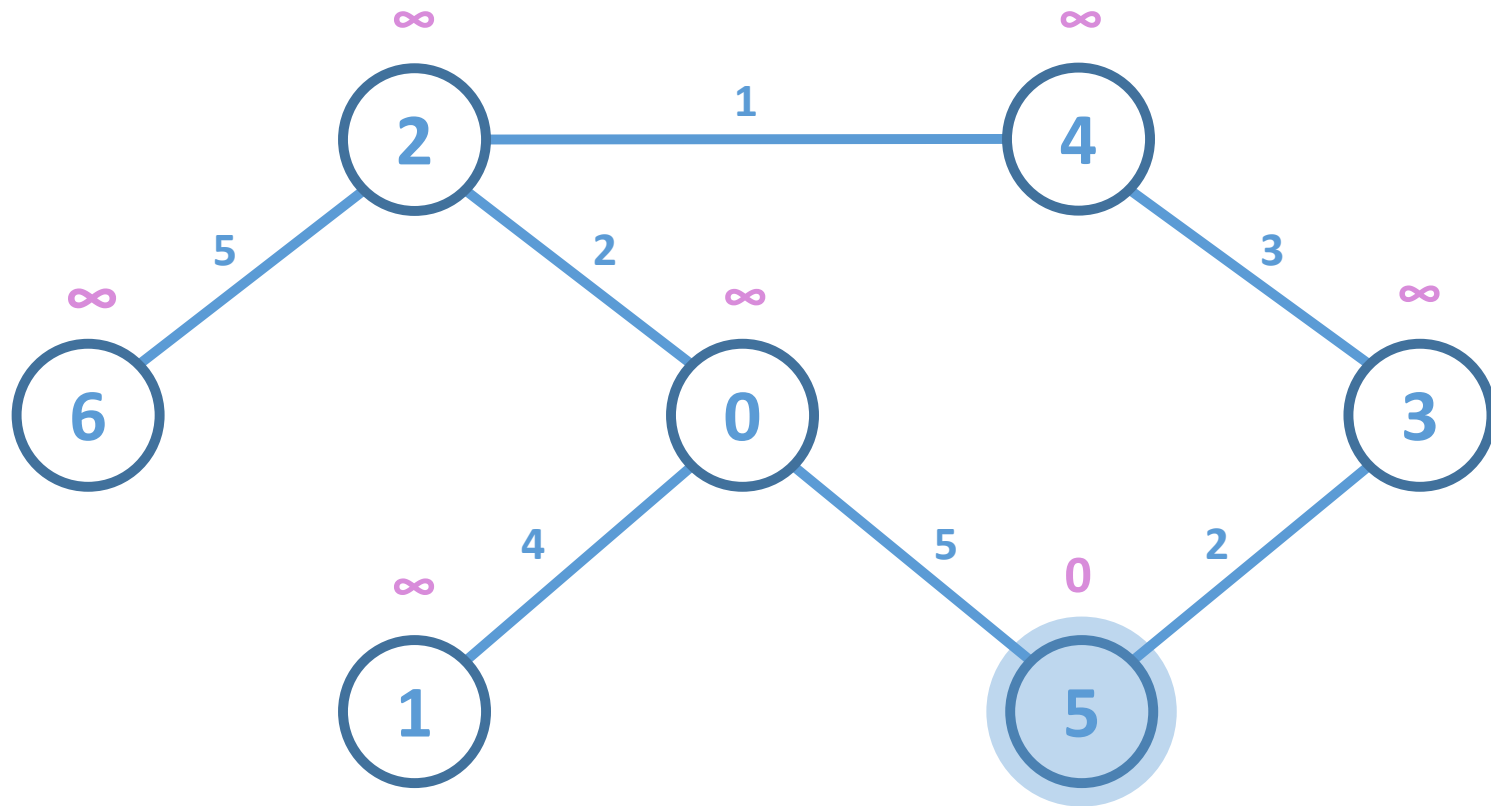


Dijkstra's Algorithm

Dijkstra's Algorithm

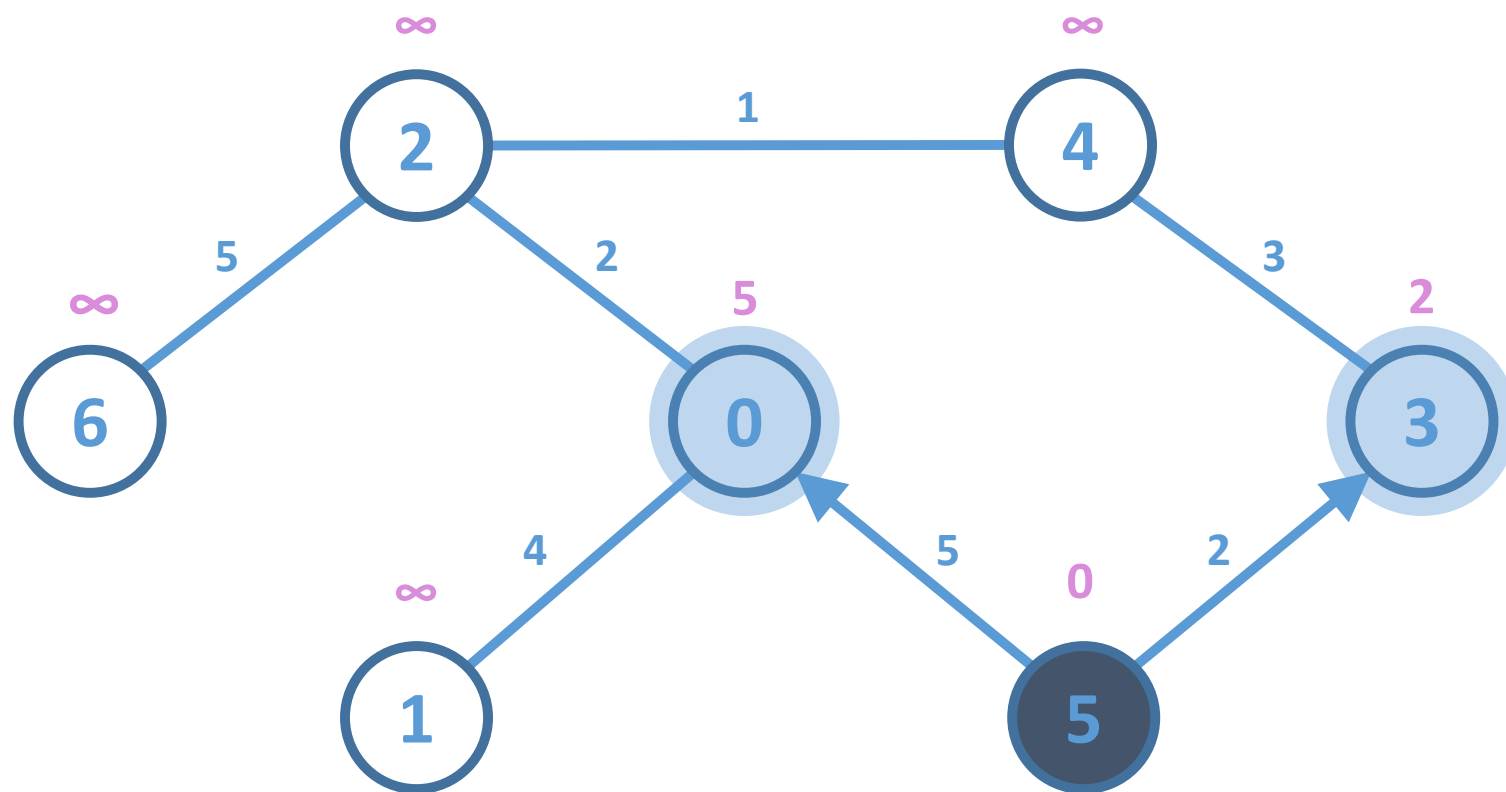


Dijkstra's Algorithm



Visiting/queueing vertex 5
Prioritized vertices $(v, h(v))$: $(5, 0)$

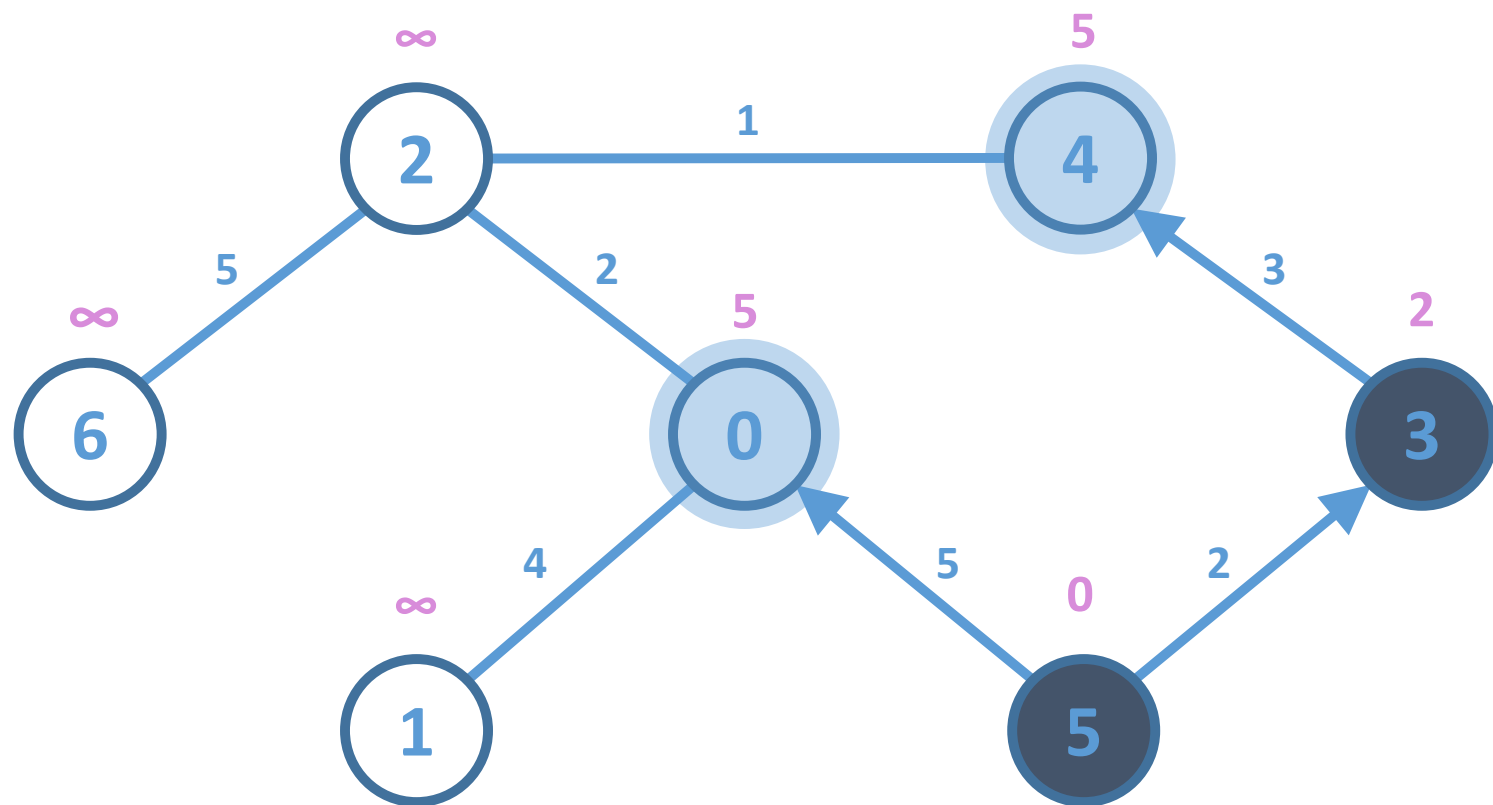
Dijkstra's Algorithm



Visiting/queueing vertex 5
Prioritized vertices $(v, h(v))$: ~~(5, 0)~~

Exploring vertex 5
Visiting/queueing vertex 3
Visiting/queueing vertex 0
Prioritized vertices $(v, h(v))$: (3, 2) (0, 5)

Dijkstra's Algorithm

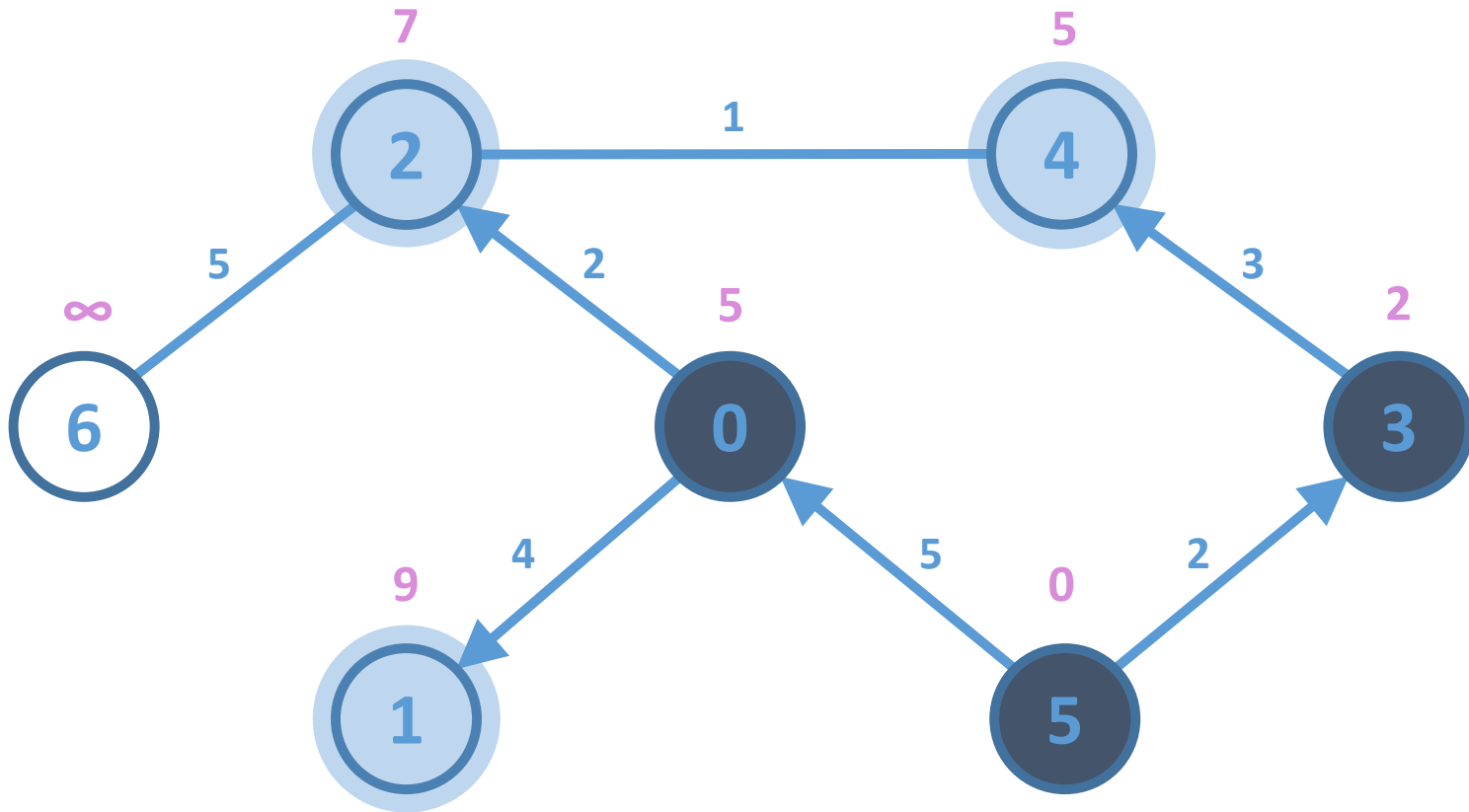


Visiting/queueing vertex 5
Prioritized vertices $(v, h(v))$: ~~(5, 0)~~

Exploring vertex 5
Visiting/queueing vertex 3
Visiting/queueing vertex 0
Prioritized vertices $(v, h(v))$: ~~(3, 2)~~ (0, 5)

Exploring vertex 3
Visiting/queueing vertex 4
Prioritized vertices $(v, h(v))$: (0, 5) (4, 5)

Dijkstra's Algorithm



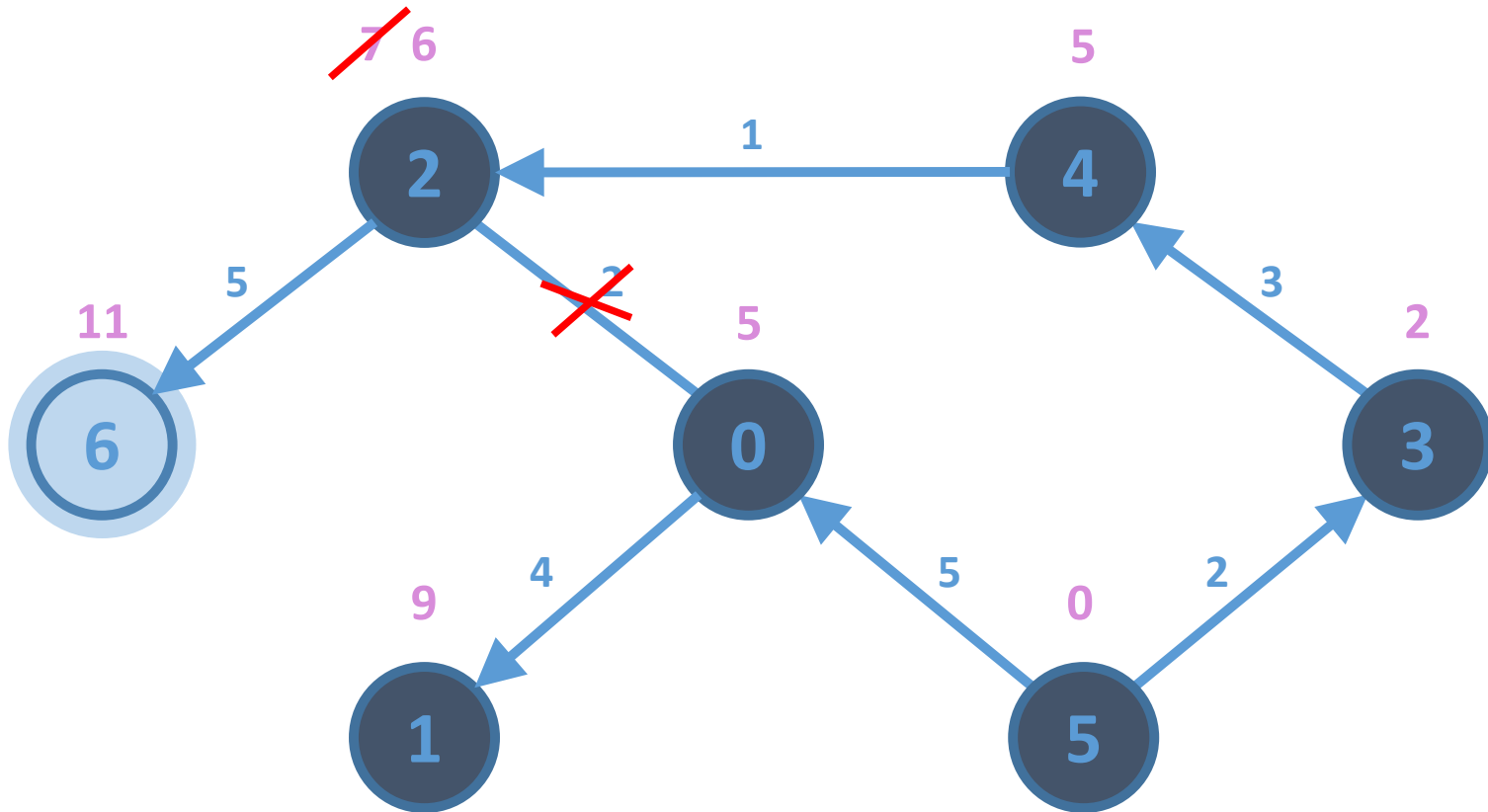
Visiting/queueing vertex 5
Prioritized vertices $(v, h(v))$: ~~(5, 0)~~

Exploring vertex 5
Visiting/queueing vertex 3
Visiting/queueing vertex 0
Prioritized vertices $(v, h(v))$: ~~(3, 2)~~ (0, 5)

Exploring vertex 3
Visiting/queueing vertex 4
Prioritized vertices $(v, h(v))$: ~~(0, 5)~~ (4, 5)

Exploring vertex 0
Visiting/queueing vertex 1
Visiting/queueing vertex 2
Prioritized vertices $(v, h(v))$:
(4, 5) (1, 9) (2, 7)

Dijkstra's Algorithm



Visiting/queueing vertex 5
 Prioritized vertices $(v, h(v))$: (~~5~~, 0)

Exploring vertex 5
 Visiting/queueing vertex 3
 Visiting/queueing vertex 0
 Prioritized vertices $(v, h(v))$: (~~3~~, 2) (0, 5)

Exploring vertex 3
 Visiting/queueing vertex 4
 Prioritized vertices $(v, h(v))$: (~~0~~, 5) (4, 5)

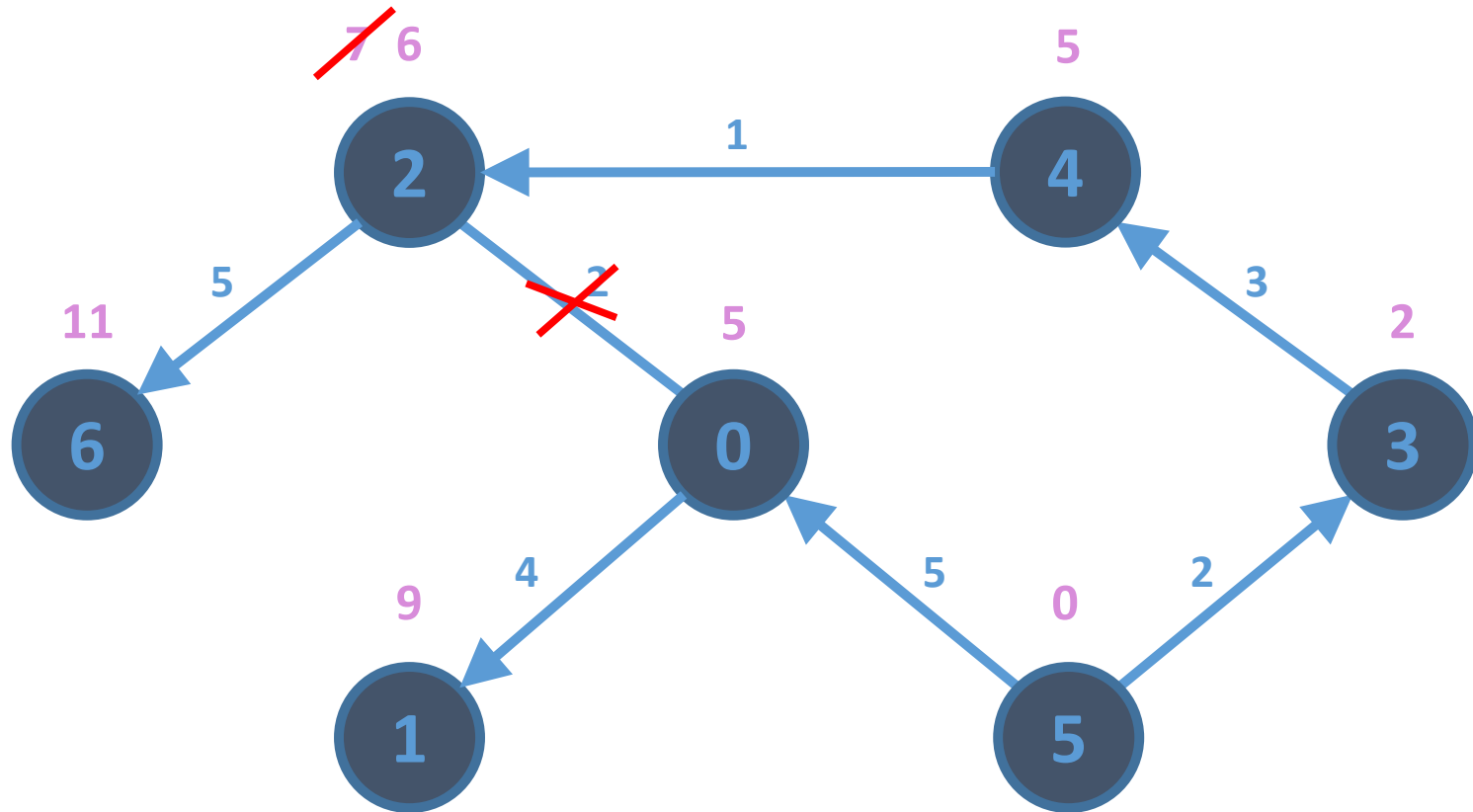
Exploring vertex 0
 Visiting/queueing vertex 1
 Visiting/queueing vertex 2
 Prioritized vertices $(v, h(v))$:
 (~~4~~, 5) (1, 9) (2, 7)

Exploring vertex 4
 Prioritized vertices $(v, h(v))$: (~~2~~, 6) (1, 9)

Exploring vertex 2
 Visiting/queueing vertex 6
 Prioritized vertices $(v, h(v))$: (~~1~~, 9) (6, 11)

Exploring vertex 1
 Prioritized vertices $(v, h(v))$: (6, 11)

Dijkstra's Algorithm



Visiting/queueing vertex 5
 Prioritized vertices $(v, h(v))$: ~~(5, 0)~~

Exploring vertex 5
 Visiting/queueing vertex 3
 Visiting/queueing vertex 0
 Prioritized vertices $(v, h(v))$: ~~(3, 2)~~ (0, 5)

Exploring vertex 3
 Visiting/queueing vertex 4
 Prioritized vertices $(v, h(v))$: ~~(0, 5)~~ (4, 5)

Exploring vertex 0
 Visiting/queueing vertex 1
 Visiting/queueing vertex 2
 Prioritized vertices $(v, h(v))$:
~~(4, 5)~~ (1, 9) (2, 7)

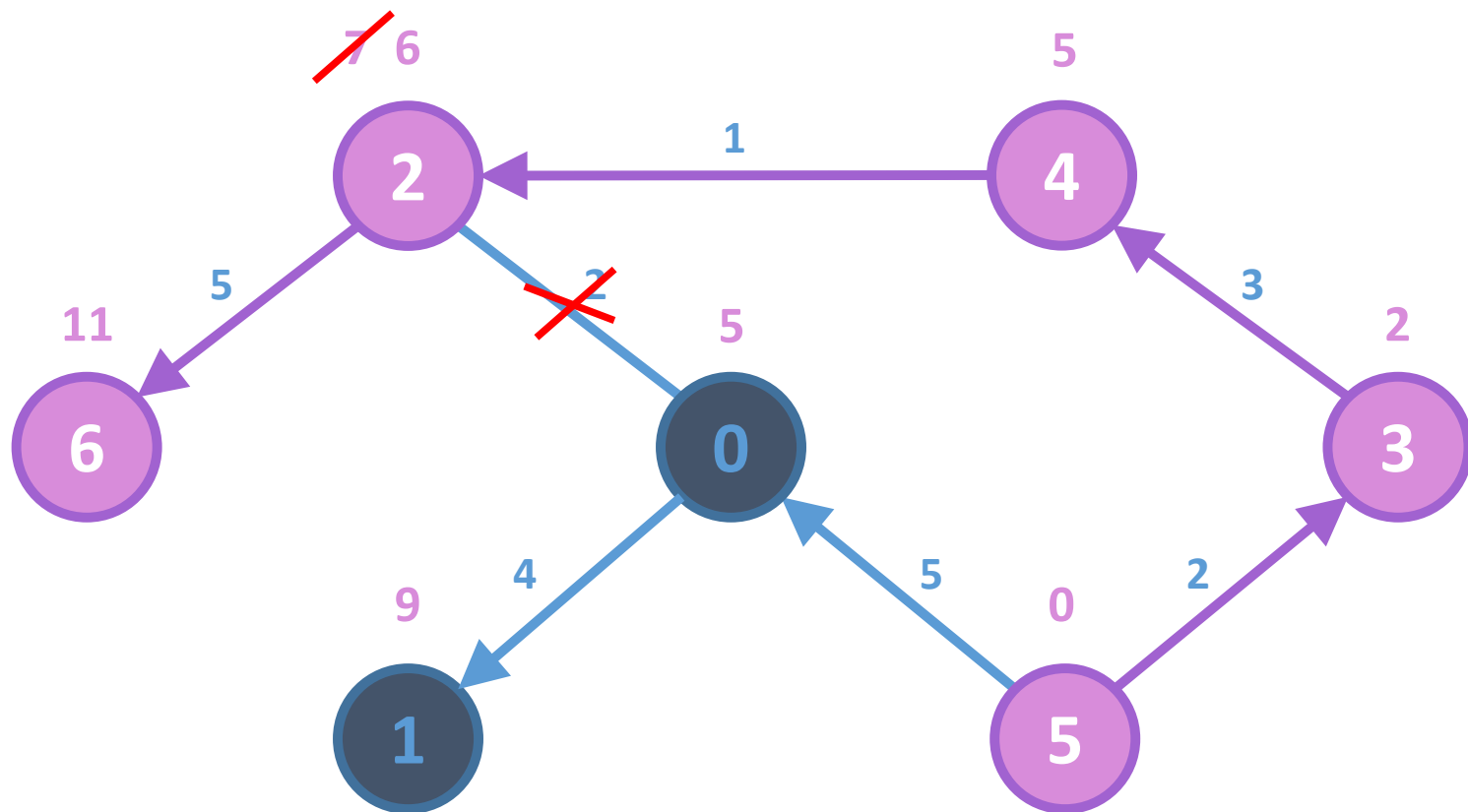
Exploring vertex 4
 Prioritized vertices $(v, h(v))$: ~~(2, 6)~~ (1, 9)

Exploring vertex 2
 Visiting/queueing vertex 6
 Prioritized vertices $(v, h(v))$: ~~(1, 9)~~ (6, 11)

Exploring vertex 1
 Prioritized vertices $(v, h(v))$: ~~(6, 11)~~

Exploring vertex 6

Dijkstra's Algorithm



Visiting/queueing vertex 5
 Prioritized vertices $(v, h(v))$: ~~(5, 0)~~

Exploring vertex 5
 Visiting/queueing vertex 3
 Visiting/queueing vertex 0
 Prioritized vertices $(v, h(v))$: ~~(3, 2)~~ (0, 5)

Exploring vertex 3
 Visiting/queueing vertex 4
 Prioritized vertices $(v, h(v))$: ~~(0, 5)~~ (4, 5)

Exploring vertex 0
 Visiting/queueing vertex 1
 Visiting/queueing vertex 2
 Prioritized vertices $(v, h(v))$:
~~(4, 5)~~ (1, 9) (2, 7)

Exploring vertex 4
 Prioritized vertices $(v, h(v))$: ~~(2, 6)~~ (1, 9)

Exploring vertex 2
 Visiting/queueing vertex 6
 Prioritized vertices $(v, h(v))$: ~~(1, 9)~~ (6, 11)

Exploring vertex 1
 Prioritized vertices $(v, h(v))$: ~~(6, 11)~~

Exploring vertex 6
 Search path found: 5 -> 3 -> 4 -> 2 -> 6