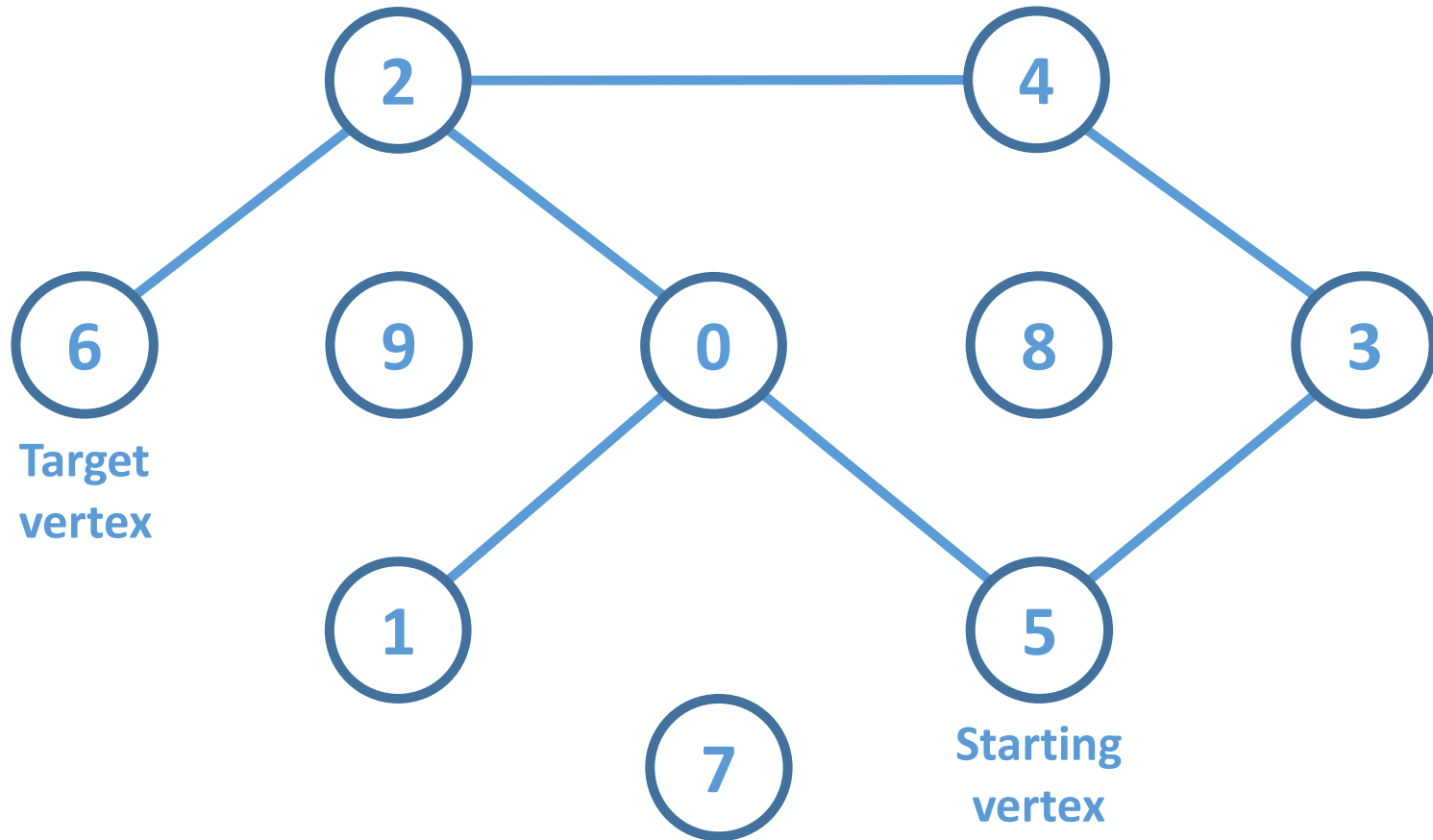


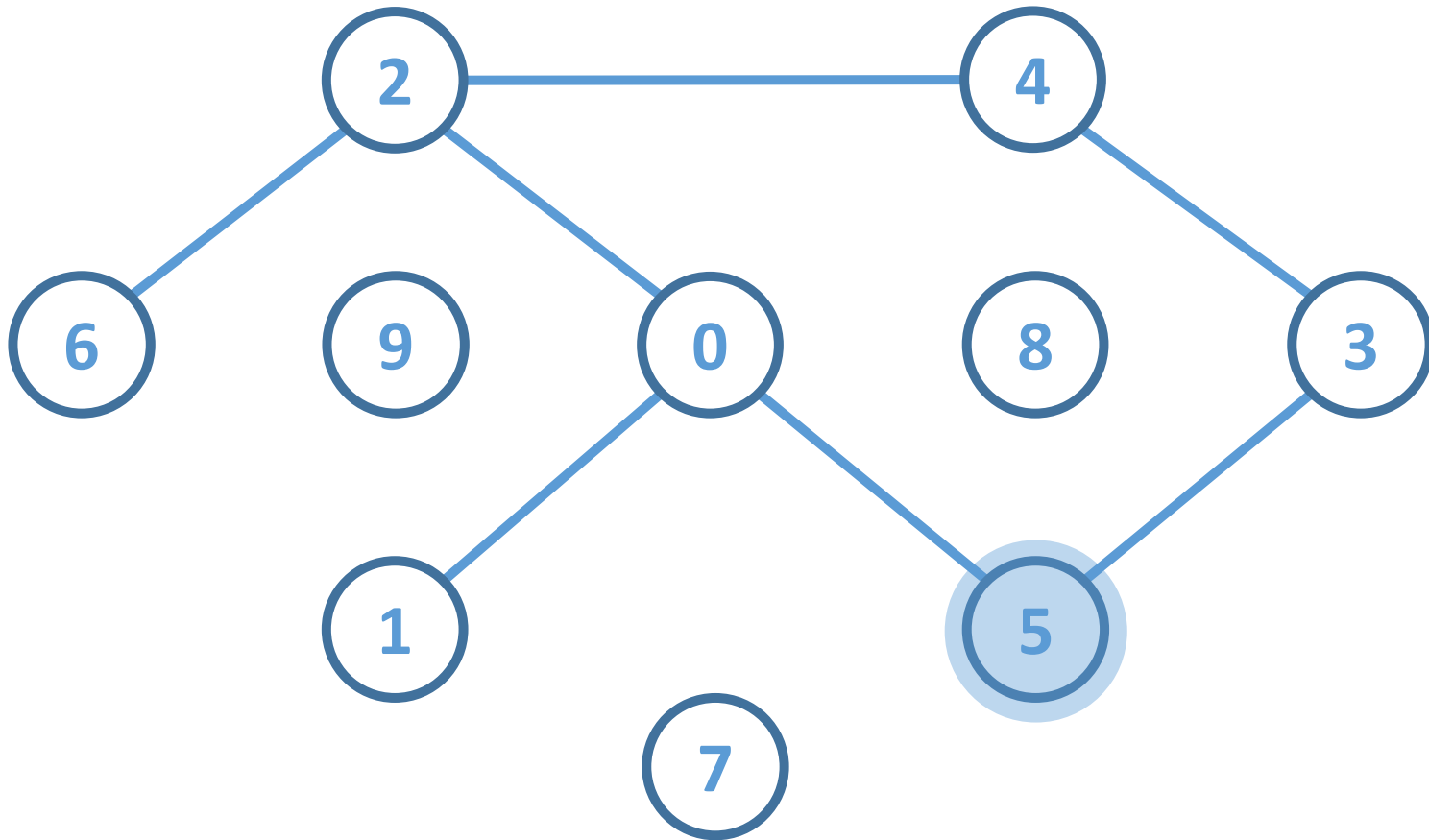
Best-First Search Algorithm

Best-First Search Algorithm

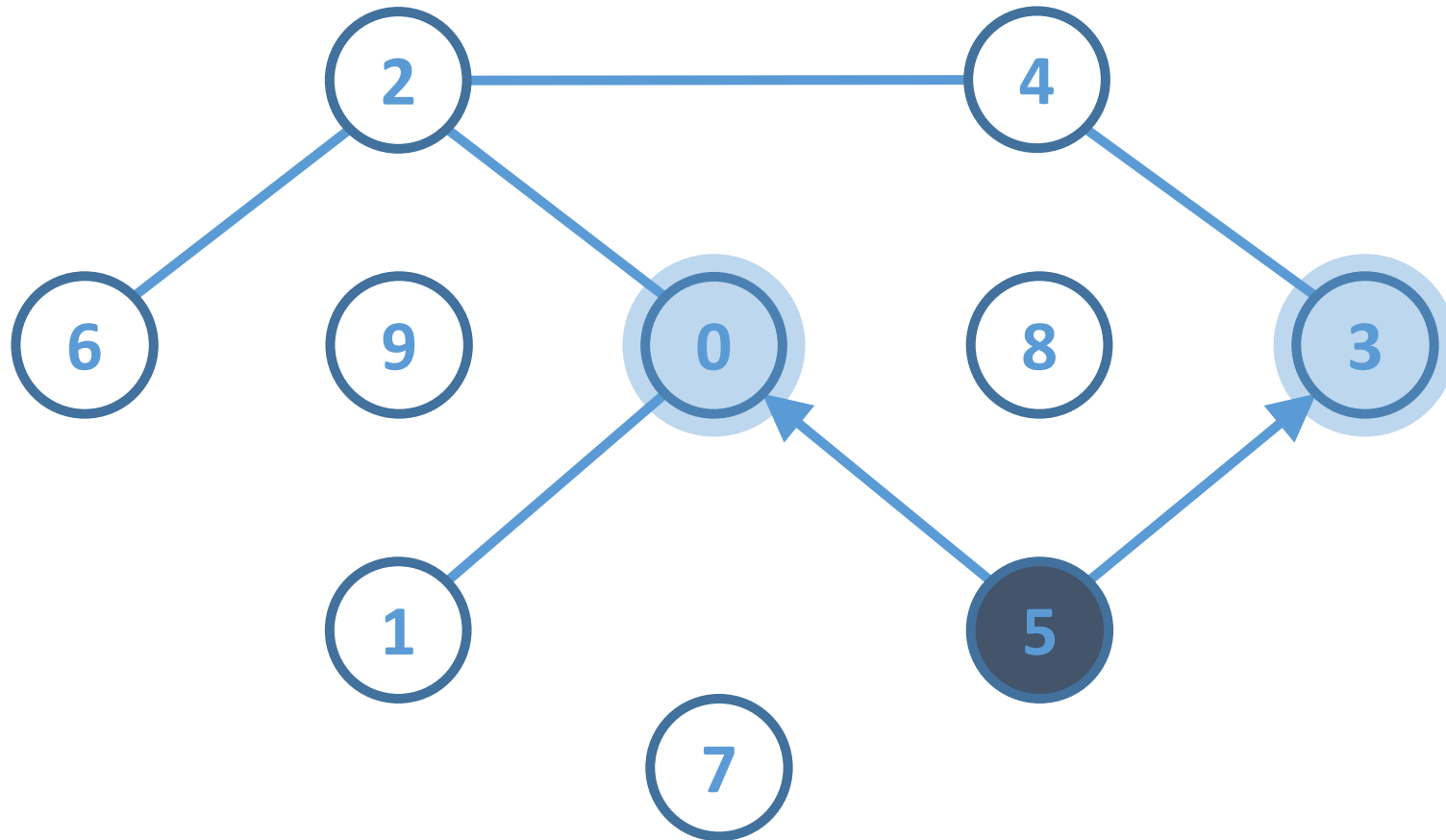


Best-First Search Algorithm

Visiting/queueing vertex 5
Prioritized vertices $(v, h(v))$: (5, 11)



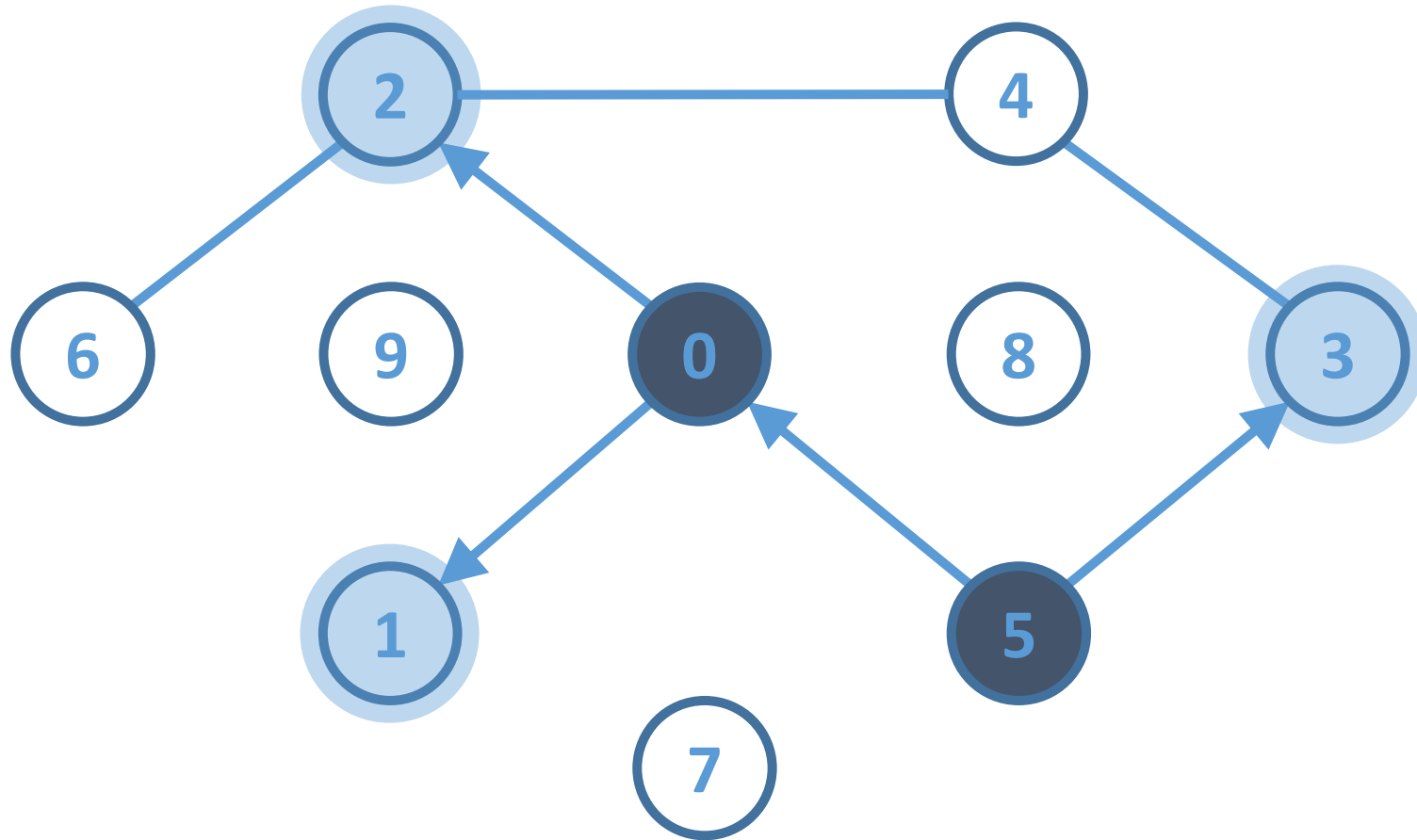
Best-First Search Algorithm



Visiting/queueing vertex 5
Prioritized vertices $(v, h(v))$: ~~(5, 11)~~

Exploring vertex 5
Visiting/queueing vertex 3
Visiting/queueing vertex 0
Prioritized vertices $(v, h(v))$: (0, 1) (3, 7)

Best-First Search Algorithm

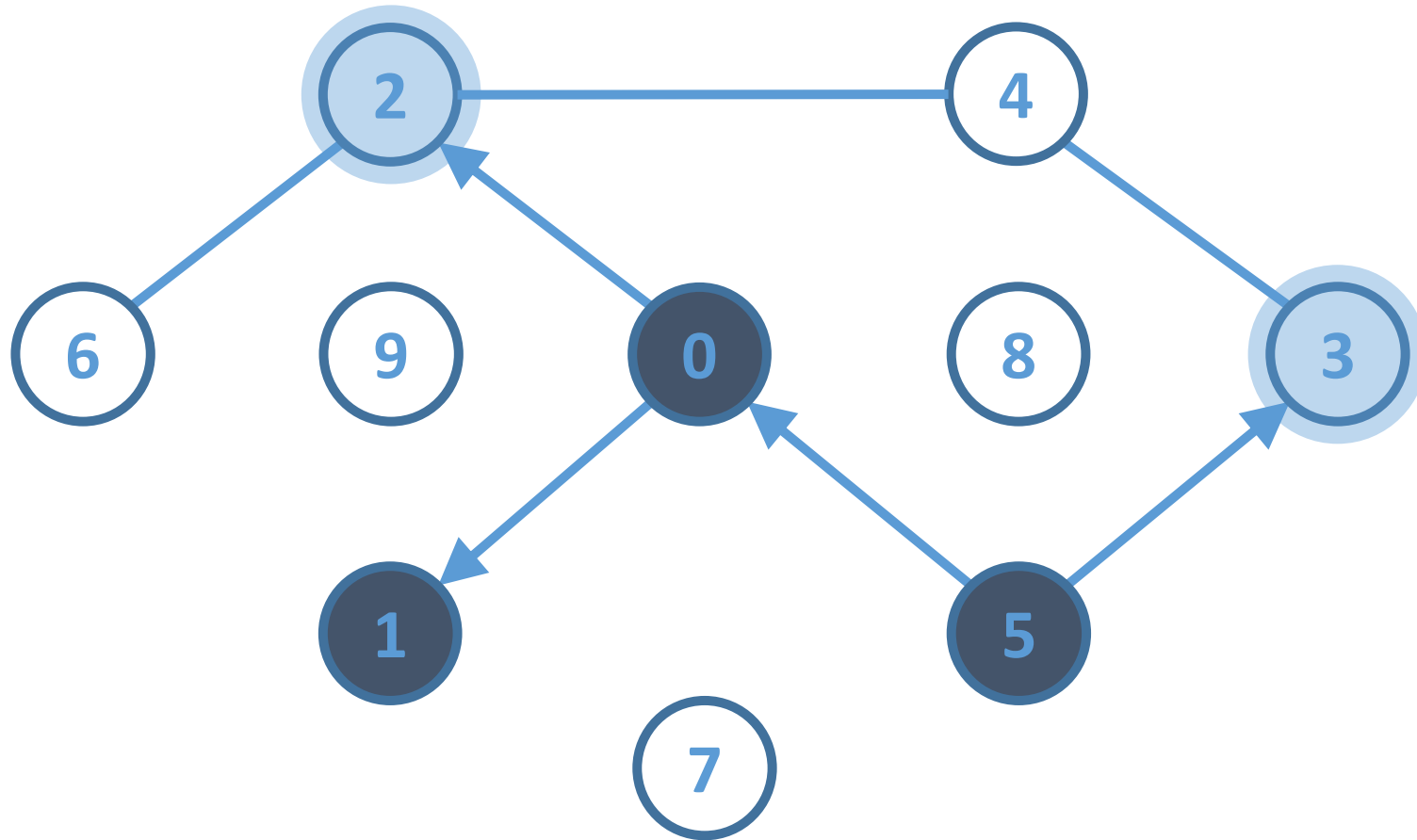


Visiting/queueing vertex 5
Prioritized vertices $(v, h(v))$: ~~(5, 11)~~

Exploring vertex 5
Visiting/queueing vertex 3
Visiting/queueing vertex 0
Prioritized vertices $(v, h(v))$: ~~(0, 1)~~ (3, 7)

Exploring vertex 0
Visiting/queueing vertex 1
Visiting/queueing vertex 2
Prioritized vertices $(v, h(v))$:
(1, 3) (3, 7) (2, 5)

Best-First Search Algorithm



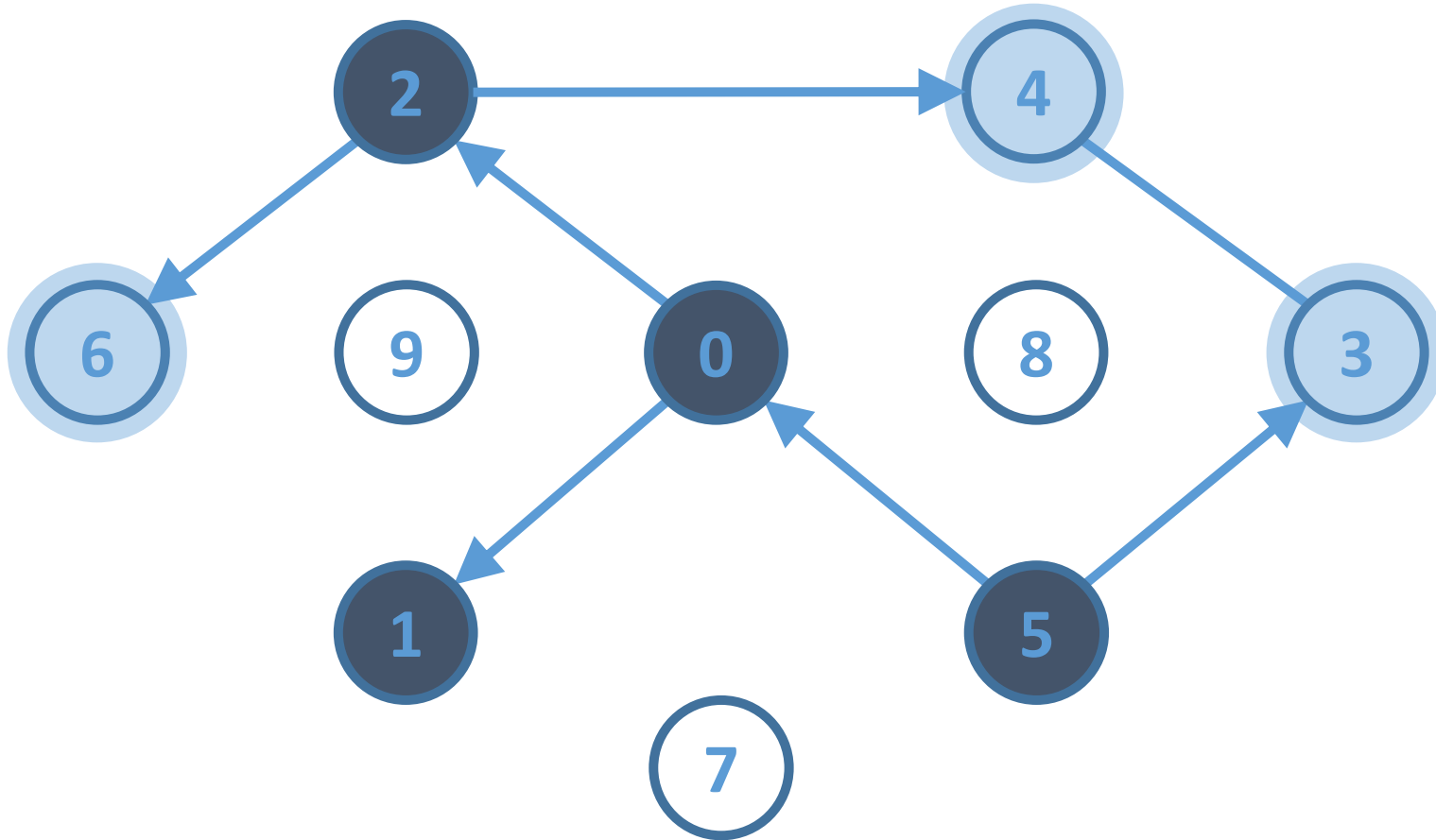
Visiting/queueing vertex 5
Prioritized vertices $(v, h(v))$: ~~(5, 11)~~

Exploring vertex 5
Visiting/queueing vertex 3
Visiting/queueing vertex 0
Prioritized vertices $(v, h(v))$: ~~(0, 1)~~ (3, 7)

Exploring vertex 0
Visiting/queueing vertex 1
Visiting/queueing vertex 2
Prioritized vertices $(v, h(v))$:
~~(1, 3)~~ (3, 7) (2, 5)

Exploring vertex 1
Prioritized vertices $(v, h(v))$: (2, 5) (3, 7)

Best-First Search Algorithm



Visiting/queueing vertex 5
Prioritized vertices $(v, h(v))$: ~~(5, 11)~~

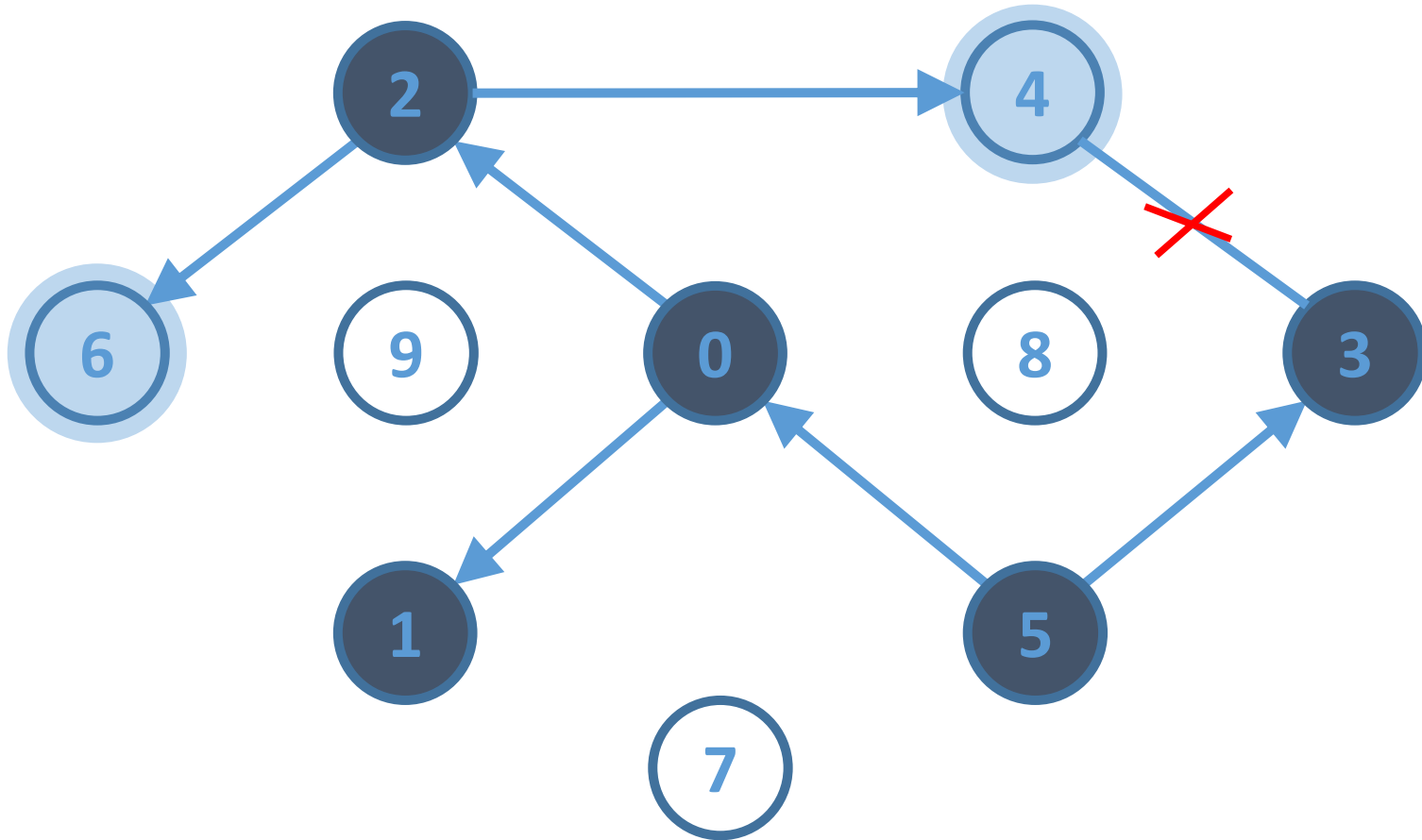
Exploring vertex 5
Visiting/queueing vertex 3
Visiting/queueing vertex 0
Prioritized vertices $(v, h(v))$: ~~(0, 1)~~ (3, 7)

Exploring vertex 0
Visiting/queueing vertex 1
Visiting/queueing vertex 2
Prioritized vertices $(v, h(v))$:
~~(1, 3)~~ (3, 7) (2, 5)

Exploring vertex 1
Prioritized vertices $(v, h(v))$: ~~(2, 5)~~ (3, 7)

Exploring vertex 2
Visiting/queueing vertex 4
Visiting/queueing vertex 6
Prioritized vertices $(v, h(v))$:
(3, 7) (4, 9) (6, 13)

Best-First Search Algorithm



Visiting/queueing vertex 5
Prioritized vertices $(v, h(v))$: ~~(5, 11)~~

Exploring vertex 5
Visiting/queueing vertex 3
Visiting/queueing vertex 0
Prioritized vertices $(v, h(v))$: ~~(0, 1)~~ (3, 7)

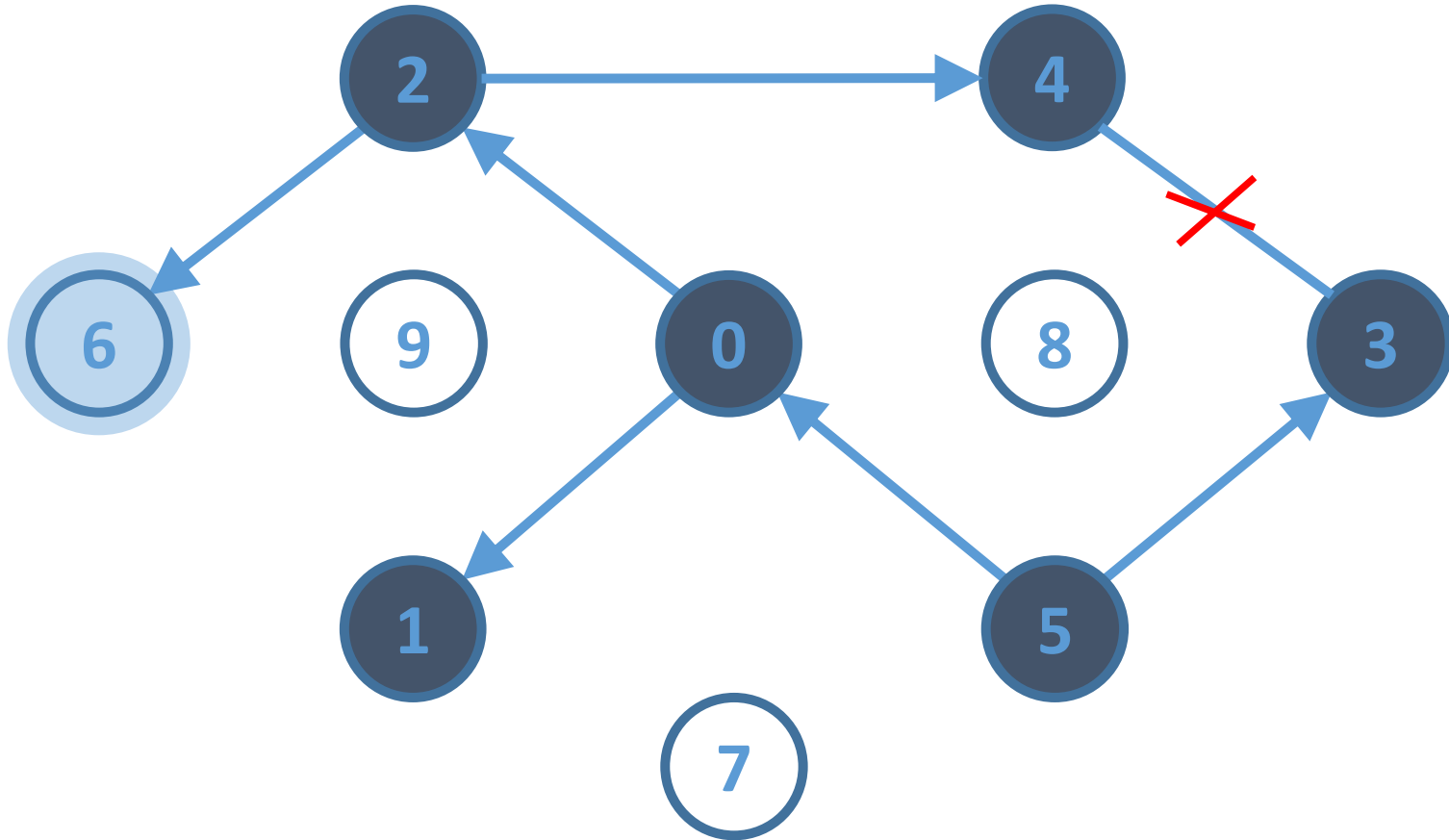
Exploring vertex 0
Visiting/queueing vertex 1
Visiting/queueing vertex 2
Prioritized vertices $(v, h(v))$:
~~(1, 3)~~ (3, 7) (2, 5)

Exploring vertex 1
Prioritized vertices $(v, h(v))$: ~~(2, 5)~~ (3, 7)

Exploring vertex 2
Visiting/queueing vertex 4
Visiting/queueing vertex 6
Prioritized vertices $(v, h(v))$:
~~(3, 7)~~ (4, 9) (6, 13)

Exploring vertex 3
Prioritized vertices $(v, h(v))$: (4, 9) (6, 13)

Best-First Search Algorithm



Visiting/queueing vertex 5
Prioritized vertices $(v, h(v))$: ~~(5, 11)~~

Exploring vertex 5
Visiting/queueing vertex 3
Visiting/queueing vertex 0
Prioritized vertices $(v, h(v))$: ~~(0, 1)~~ (3, 7)

Exploring vertex 0
Visiting/queueing vertex 1
Visiting/queueing vertex 2
Prioritized vertices $(v, h(v))$:
~~(1, 3)~~ (3, 7) (2, 5)

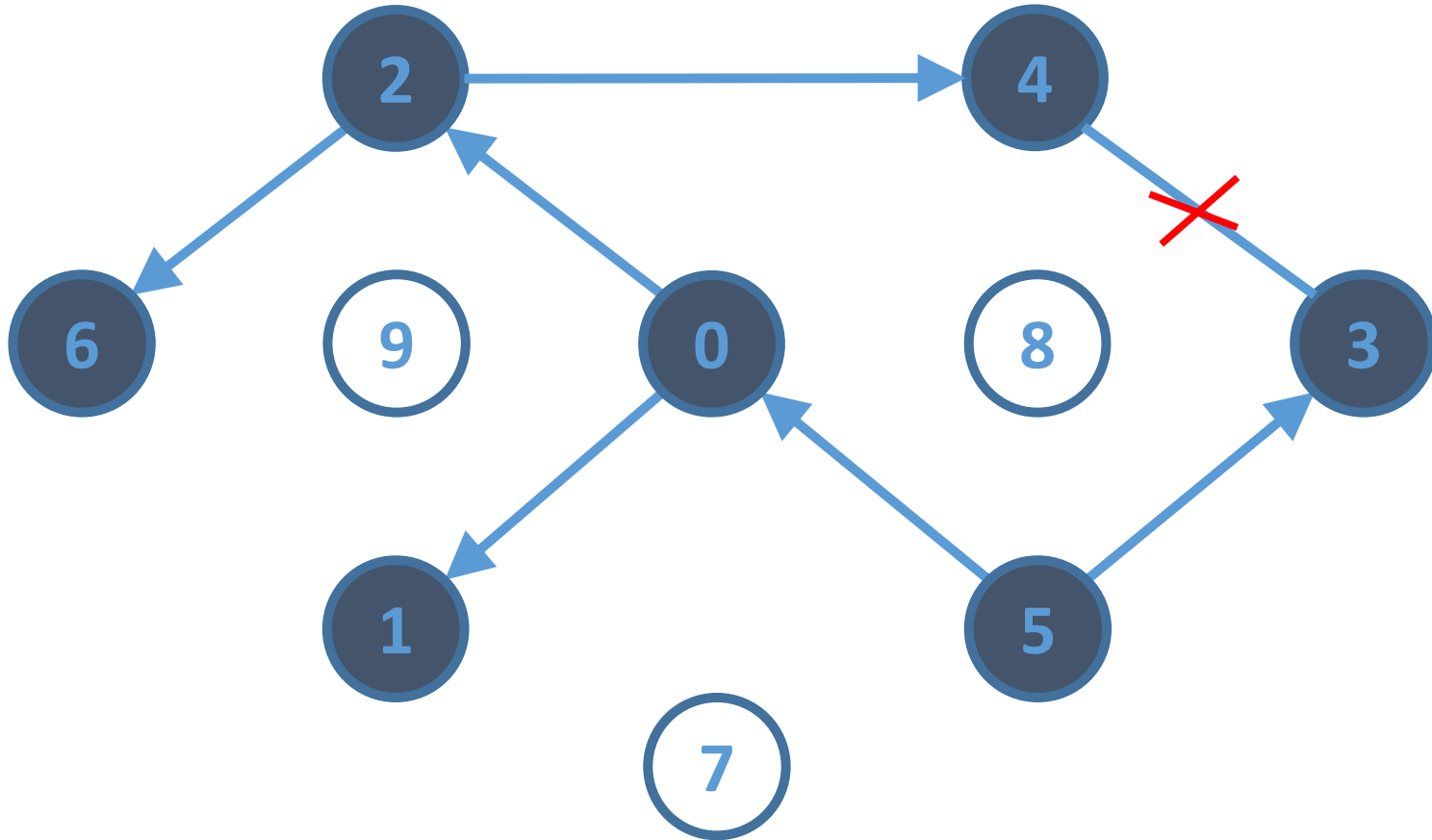
Exploring vertex 1
Prioritized vertices $(v, h(v))$: ~~(2, 5)~~ (3, 7)

Exploring vertex 2
Visiting/queueing vertex 4
Visiting/queueing vertex 6
Prioritized vertices $(v, h(v))$:
~~(3, 7)~~ (4, 9) (6, 13)

Exploring vertex 3
Prioritized vertices $(v, h(v))$: ~~(4, 9)~~ (6, 13)

Exploring vertex 4
Prioritized vertices $(v, h(v))$: (6, 13)

Best-First Search Algorithm



Visiting/queueing vertex 5
Prioritized vertices $(v, h(v))$: ~~(5, 11)~~

Exploring vertex 5
Visiting/queueing vertex 3
Visiting/queueing vertex 0
Prioritized vertices $(v, h(v))$: ~~(0, 1)~~ (3, 7)

Exploring vertex 0
Visiting/queueing vertex 1
Visiting/queueing vertex 2
Prioritized vertices $(v, h(v))$:
~~(1, 3)~~ (3, 7) (2, 5)

Exploring vertex 1
Prioritized vertices $(v, h(v))$: ~~(2, 5)~~ (3, 7)

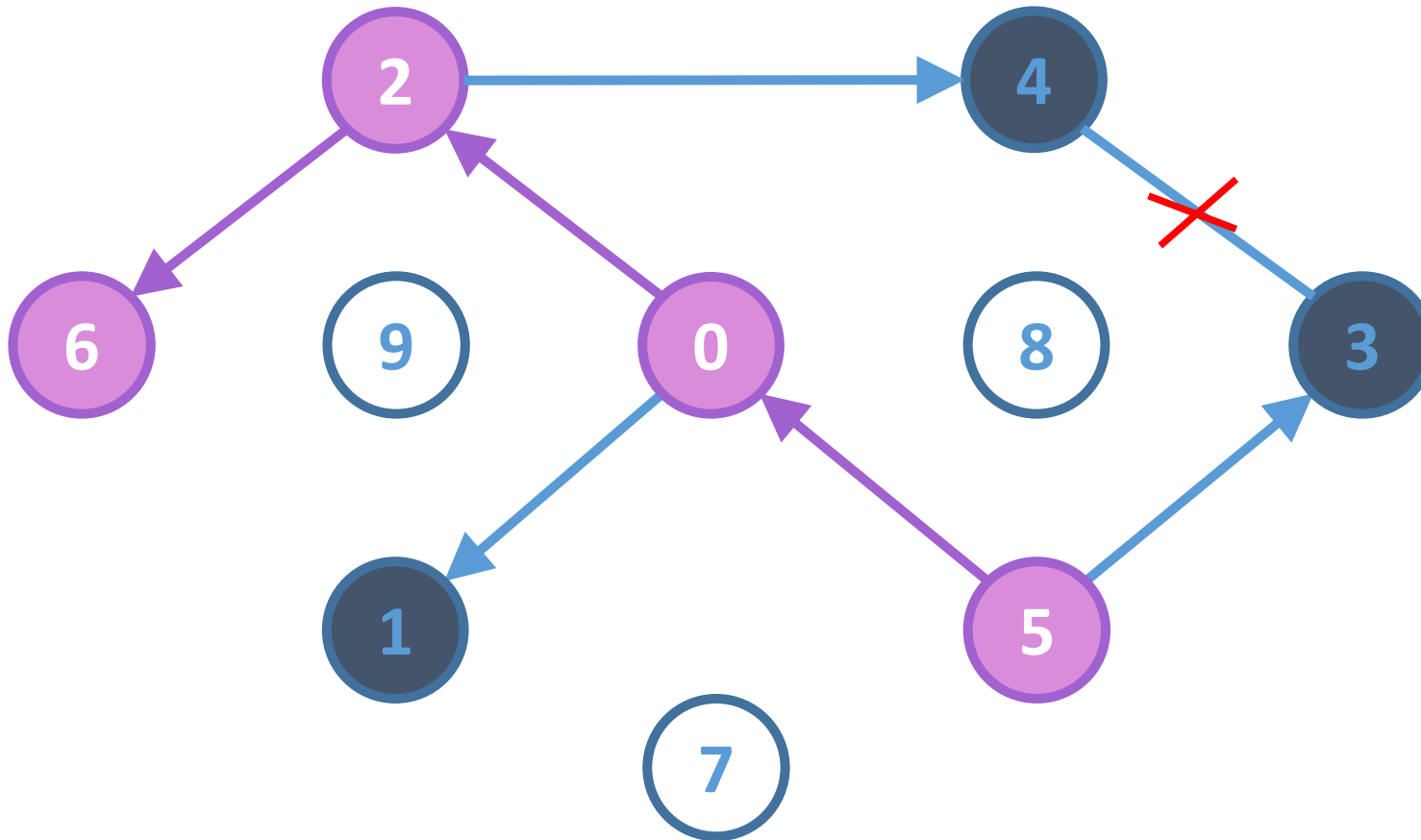
Exploring vertex 2
Visiting/queueing vertex 4
Visiting/queueing vertex 6
Prioritized vertices $(v, h(v))$:
~~(3, 7)~~ (4, 9) (6, 13)

Exploring vertex 3
Prioritized vertices $(v, h(v))$: ~~(4, 9)~~ (6, 13)

Exploring vertex 4
Prioritized vertices $(v, h(v))$: ~~(6, 13)~~

Exploring vertex 6

Best-First Search Algorithm



Visiting/queueing vertex 5
Prioritized vertices $(v, h(v))$: (5, 11)

Exploring vertex 5
Visiting/queueing vertex 3
Visiting/queueing vertex 0
Prioritized vertices $(v, h(v))$: (0, 1) (3, 7)

Exploring vertex 0
Visiting/queueing vertex 1
Visiting/queueing vertex 2
Prioritized vertices $(v, h(v))$:
(1, 3) (3, 7) (2, 5)

Exploring vertex 1
Prioritized vertices $(v, h(v))$: (2, 5) (3, 7)

Exploring vertex 2
Visiting/queueing vertex 4
Visiting/queueing vertex 6
Prioritized vertices $(v, h(v))$:
(3, 7) (4, 9) (6, 13)

Exploring vertex 3
Prioritized vertices $(v, h(v))$: (4, 9) (6, 13)

Exploring vertex 4
Prioritized vertices $(v, h(v))$: (6, 13)

Exploring vertex 6
Search path found: 5 -> 0 -> 2 -> 6