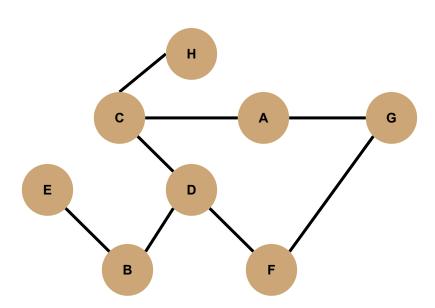
Starting from A, write the order in which vertices are visited using **BFS**.



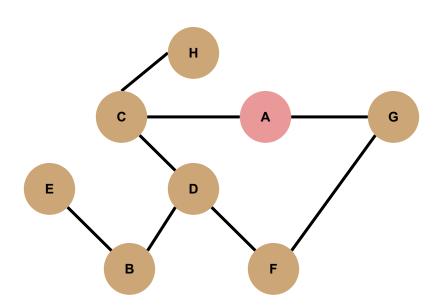
Order of BFS:

Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	F
В	F
С	F
D	F
E	F
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **BFS**.



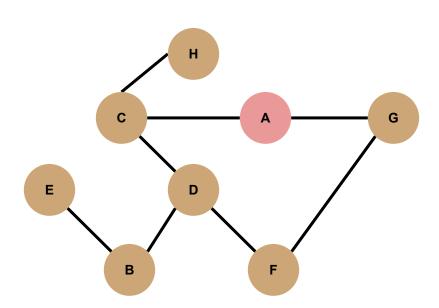
Order of BFS:

Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[
Α	Т
В	F
С	F
D	F
E	F
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS:

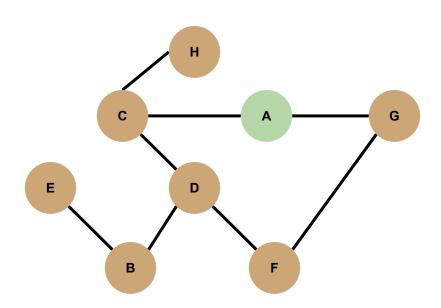
Initialize Queue with Starting Vertex & Mark it

1. While Queue is not empty:

- Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	F
С	F
D	F
E	F
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **BFS**.



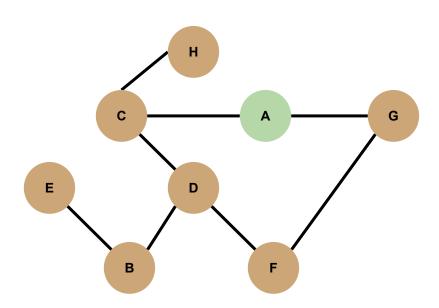
Order of BFS: A

Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	F
С	F
D	F
E	F
F	F
G	F
н	F

Starting from A, write the order in which vertices are visited using **BFS**.



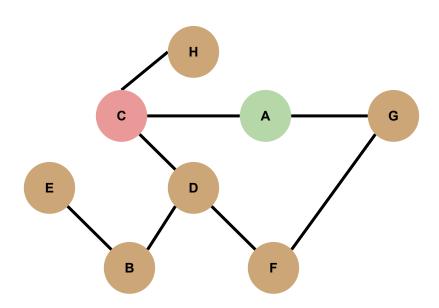
Order of BFS: A

Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	F
С	F
D	F
E	F
F	F
G	F
н	F

Starting from A, write the order in which vertices are visited using **BFS**.



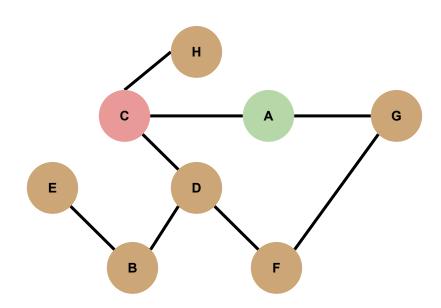
Order of BFS: A

Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	F
С	Т
D	F
E	F
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **BFS**.



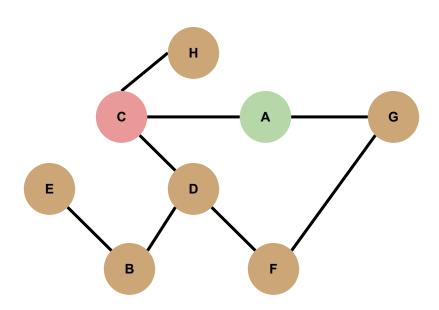
Order of BFS: A

Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	F
С	Т
D	F
E	F
F	F
G	F
н	F

Starting from A, write the order in which vertices are visited using **BFS**.



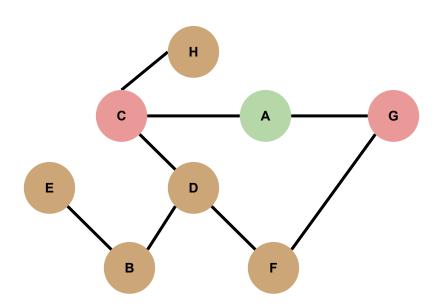
Order of BFS: A

Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	F
С	Т
D	F
E	F
F	F
G	F
Н	F

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A

Initialize Queue with Starting Vertex & Mark it

1. While Queue is not empty:

Dequeue vertex v

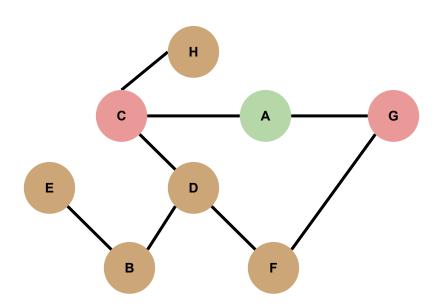
2. For every unmarked neighbor n:

Mark neighbor

• Enqueue n to Queue

Vertex	marked[
Α	Т
В	F
С	Т
D	F
E	F
F	F
G	т
н	F

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A

Initialize Queue with Starting Vertex & Mark it

1. While Queue is not empty:

Dequeue vertex v

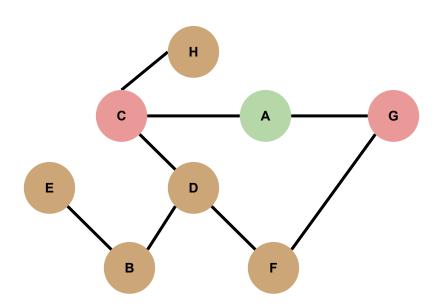
2. For every unmarked neighbor n:

- Mark neighbor
- Enqueue n to Queue

Vertex	marked[]
Α	Т
В	F
С	Т
D	F
E	F
F	F
G	Т
Н	F

Queue: [C, G]

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A

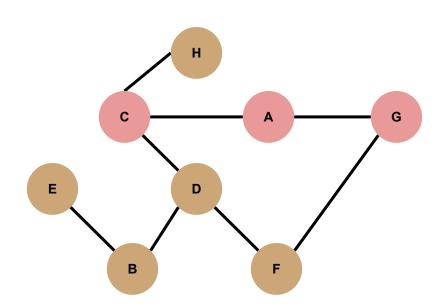
Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[
Α	Т
В	F
С	Т
D	F
E	F
F	F
G	Т
Н	F

Queue: [C, G]

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A

Initialize Queue with Starting Vertex & Mark it

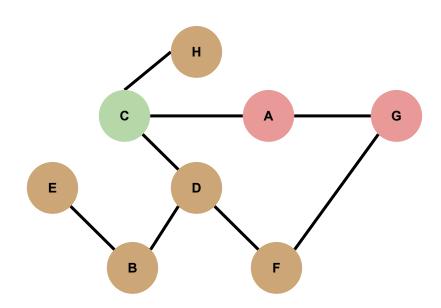
1. While Queue is not empty:

- Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	F
С	Т
D	F
E	F
F	F
G	Т
н	F

Queue: [C, G]

Starting from A, write the order in which vertices are visited using **BFS**.



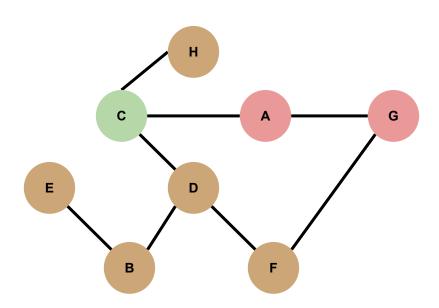
Order of BFS: A, C

Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	F
С	Т
D	F
E	F
F	F
G	Т
Н	F

Starting from A, write the order in which vertices are visited using **BFS**.



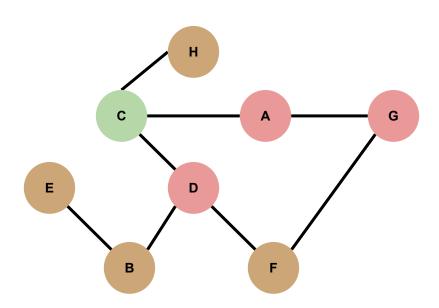
Order of BFS: A, C

Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	F
С	Т
D	F
E	F
F	F
G	Т
Н	F

Starting from A, write the order in which vertices are visited using **BFS**.



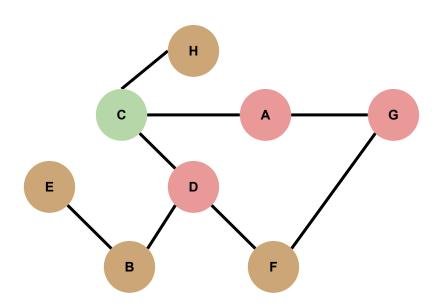
Order of BFS: A, C

Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	F
С	Т
D	Т
E	F
F	F
G	Т
Н	F

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A, C

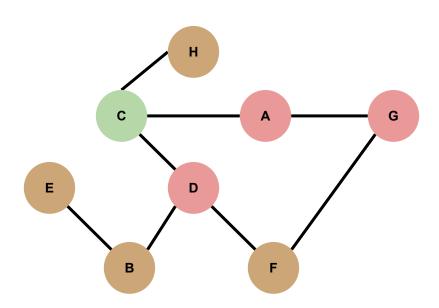
Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	F
С	Т
D	Т
E	F
F	F
G	Т
Н	F

Queue: [G, D]

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A, C

Initialize Queue with Starting Vertex & Mark it

1. While Queue is not empty:

Dequeue vertex v

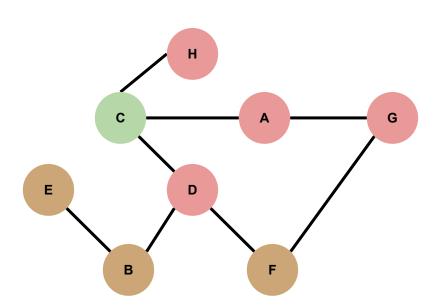
2. For every unmarked neighbor n:

- Mark neighbor
- Enqueue n to Queue

Vertex	marked[]
Α	Т
В	F
С	Т
D	Т
E	F
F	F
G	Т
н	F

Queue: [G, D]

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A, C

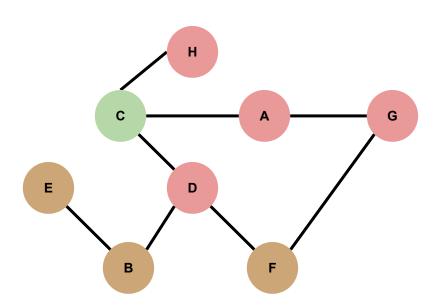
Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[
Α	Т
В	F
С	Т
D	Т
E	F
F	F
G	Т
Н	т

Queue: [G, D]

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A, C

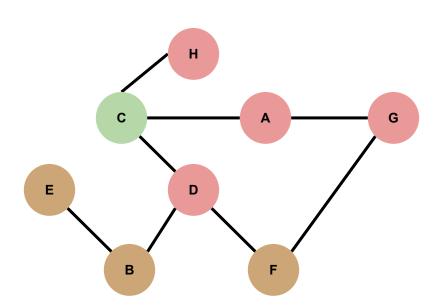
Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	F
С	Т
D	Т
E	F
F	F
G	Т
н	Т

Queue: [G, D, H]

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A, C

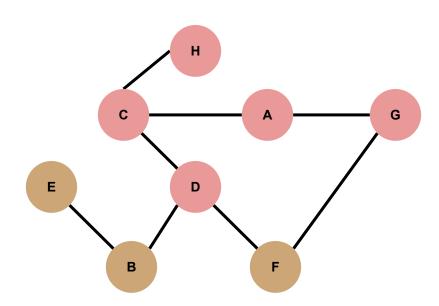
Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	F
С	Т
D	Т
E	F
F	F
G	Т
Н	Т

Queue: [G, D, H]

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A, C

Initialize Queue with Starting Vertex & Mark it

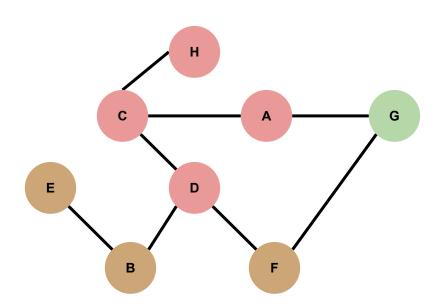
1. While Queue is not empty:

- Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	F
С	Т
D	Т
E	F
F	F
G	Т
н	Т

Queue: [G, D, H]

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A, C, G

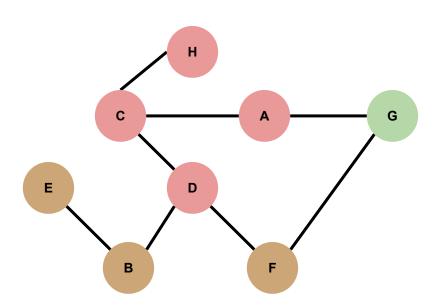
Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	F
С	Т
D	Т
E	F
F	F
G	Т
Н	Т

Queue: [D, H]

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A, C, G

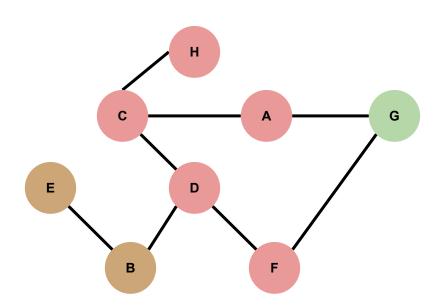
Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	F
С	Т
D	Т
E	F
F	F
G	Т
Н	Т

Queue: [D, H]

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A, C, G

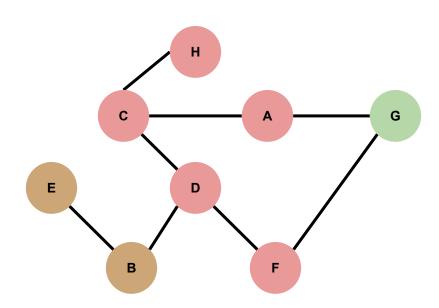
Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[
Α	Т
В	F
С	Т
D	Т
E	F
F	Т
G	Т
Н	Т

Queue: [D, H]

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A, C, G

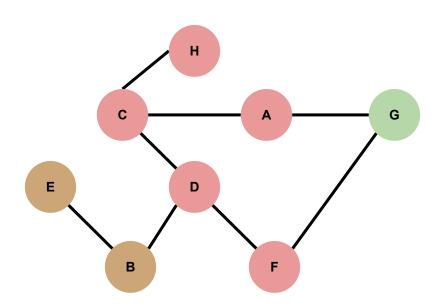
Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	F
С	Т
D	Т
E	F
F	T
G	Т
Н	Т

Queue: [D, H, F]

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A, C, G

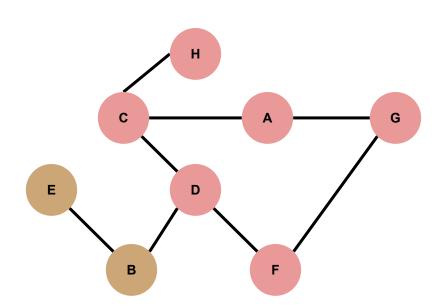
Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	F
С	T
D	Т
E	F
F	Т
G	Т
Н	Т

Queue: [D, H, F]

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A, C, G

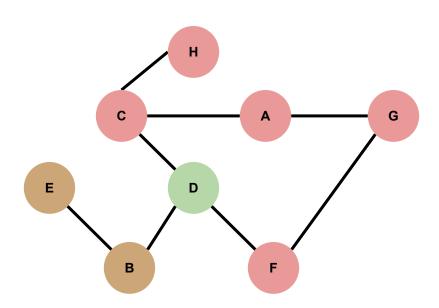
Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	F
С	Т
D	Т
E	F
F	Т
G	Т
Н	Т

Queue: [D, H, F]

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A, C, G, D

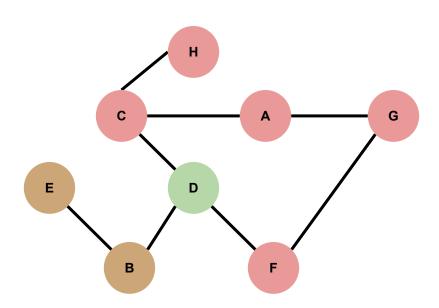
Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	F
С	Т
D	Т
E	F
F	Т
G	Т
Н	Т

Queue: [H, F]

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A, C, G, D

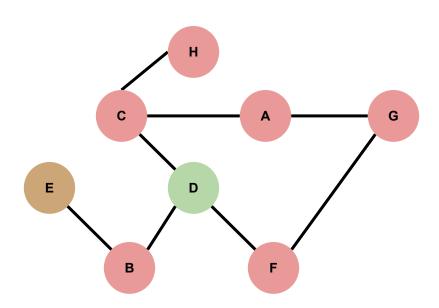
Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	F
С	Т
D	Т
E	F
F	Т
G	Т
Н	Т

Queue: [H, F]

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A, C, G, D

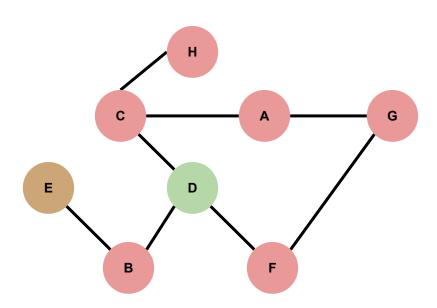
Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	т
С	Т
D	Т
E	F
F	Т
G	Т
Н	Т

Queue: [H, F]

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A, C, G, D

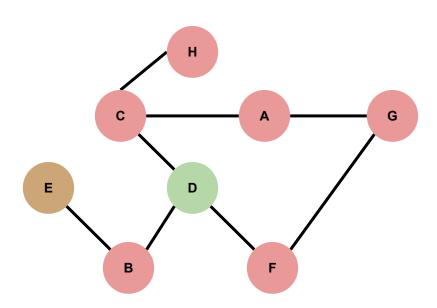
Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	F
F	Т
G	Т
Н	Т

Queue: [H, F, B]

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A, C, G, D

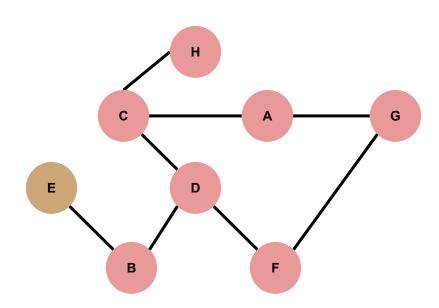
Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	F
F	Т
G	Т
Н	Т

Queue: [H, F, B]

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A, C, G, D

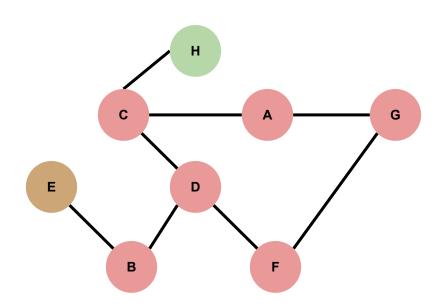
Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	F
F	Т
G	Т
Н	Т

Queue: [H, F, B]

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A, C, G, D, H

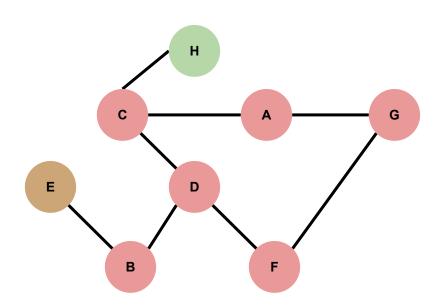
Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[
Α	Т
В	Т
С	Т
D	Т
E	F
F	Т
G	Т
Н	Т

Queue: [F, B]

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A, C, G, D, H

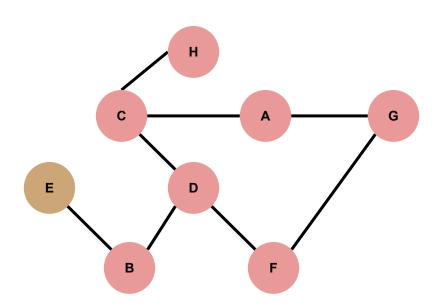
Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	F
F	Т
G	Т
Н	Т

Queue: [F, B]

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A, C, G, D, H

Initialize Queue with Starting Vertex & Mark it

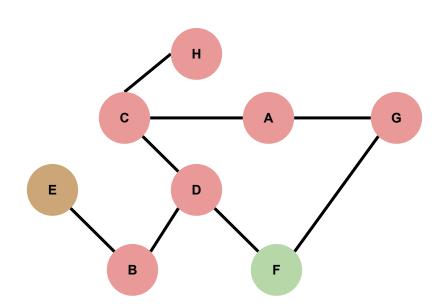
1. While Queue is not empty:

- Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	F
F	Т
G	Т
Н	Т

Queue: [F, B]

Starting from A, write the order in which vertices are visited using **BFS**.



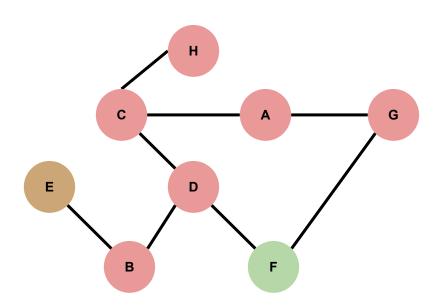
Order of BFS: A, C, G, D, H, F

Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	F
F	Т
G	Т
Н	Т

Starting from A, write the order in which vertices are visited using **BFS**.



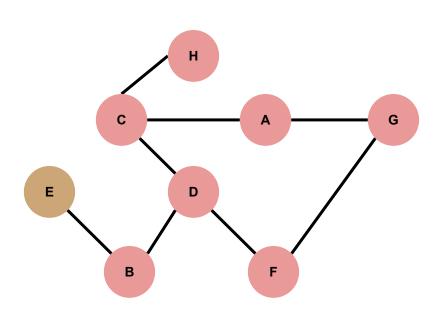
Order of BFS: A, C, G, D, H, F

Initialize Queue with Starting Vertex & Mark it

- 1. While Queue is not empty:
 - Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	F
F	Т
G	Т
Н	Т

Starting from A, write the order in which vertices are visited using **BFS**.



Order of BFS: A, C, G, D, H, F

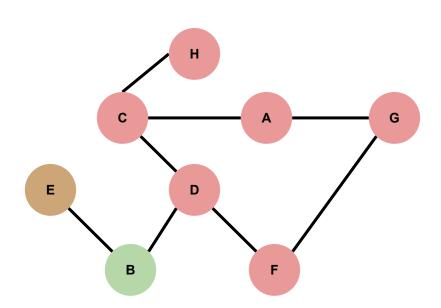
Initialize Queue with Starting Vertex & Mark it

1. While Queue is not empty:

- Dequeue vertex v
- 2. For every unmarked neighbor n:
 - Mark neighbor
 - Enqueue n to Queue

Vertex	marked[]
Α	Т
В	Т
С	Т
D	Т
E	F
F	Т
G	Т
Н	Т

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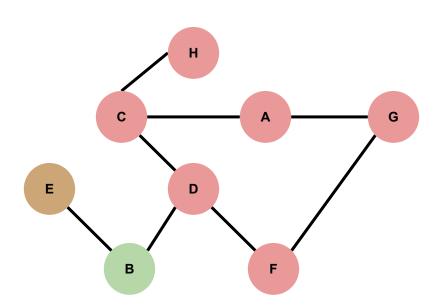
Order of BFS: A, C, G, D, H, F, B

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Vertex	marked[]
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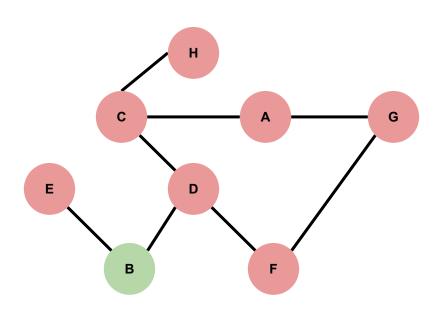
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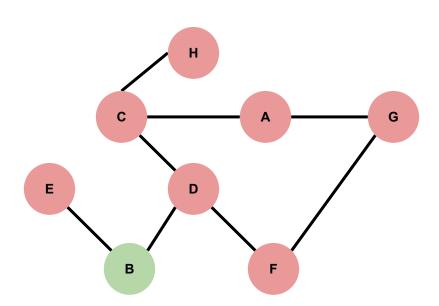
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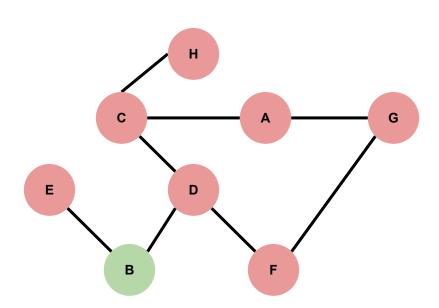
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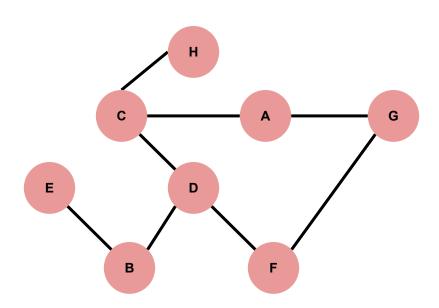
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Order of BFS: A, C, G, D, H, F, B

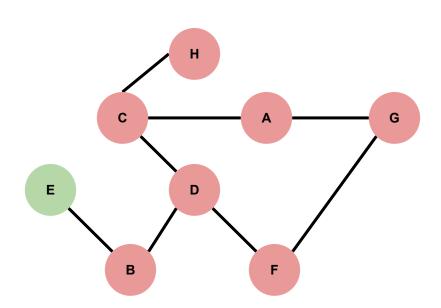
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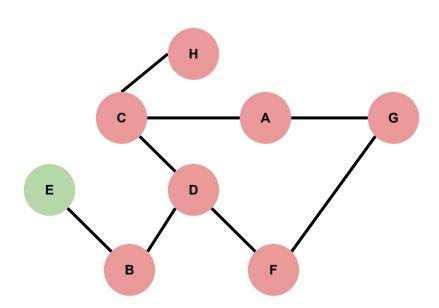
Order of BFS: A, C, G, D, H, F, B, E

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G	т
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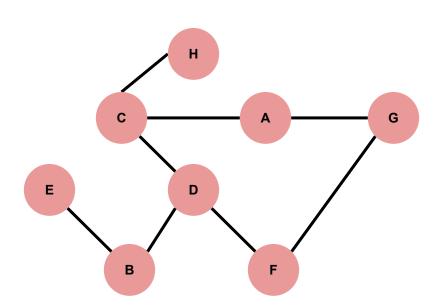
Order of BFS: A, C, G, D, H, F, B, E

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Order of BFS: A, C, G, D, H, F, B, E

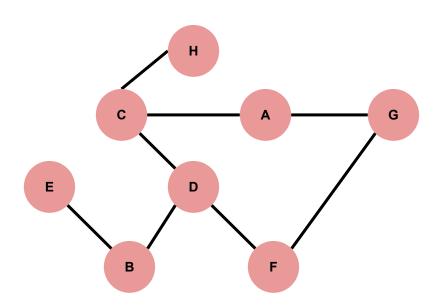
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