Week12 Homework 1

Step 1:

Visited count:

	A	B	C	D	E	F	G	H	I	J	K	L
	0	0	0	0	0	0	0	0	0	0	0	0

Queue:

Print:

Step 2:

Visited count:

	A	B	C	D	E	F	G	H	I	J	K	L
	1	0	0	0	0	0	0	0	0	0	0	0

Queue: A

Print:

Step 3:
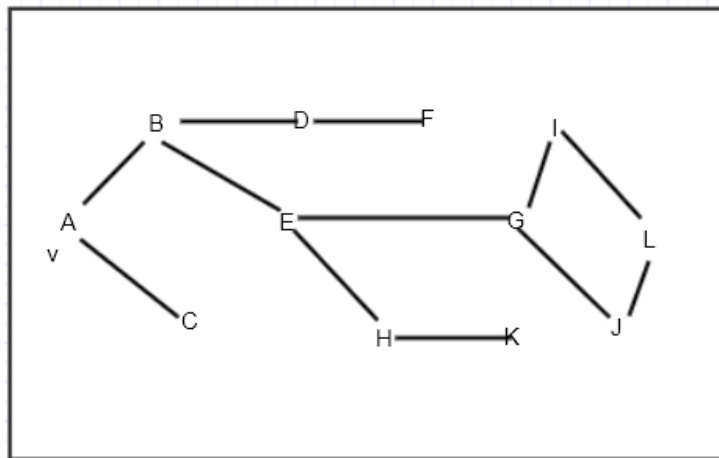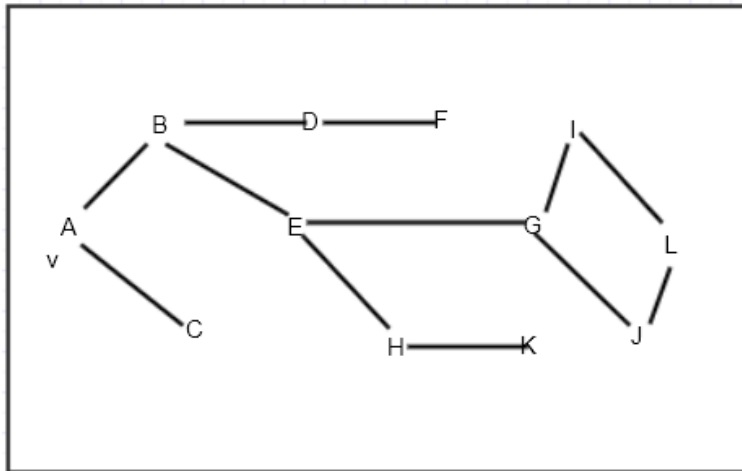
Visited count: A   B   C   D   E   F   G   H   I   J   K   L

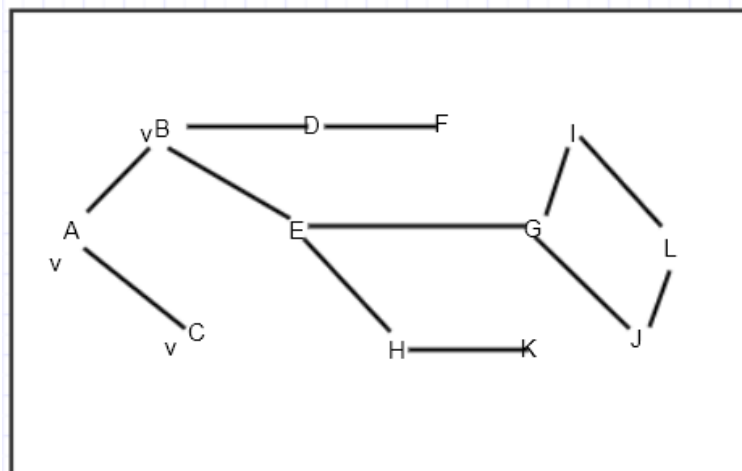| 1	0	0	0	0	0	0	0	0	0	0	0

Queue:

Print: A

1. Add A to the queue
2. Print A

Step4:

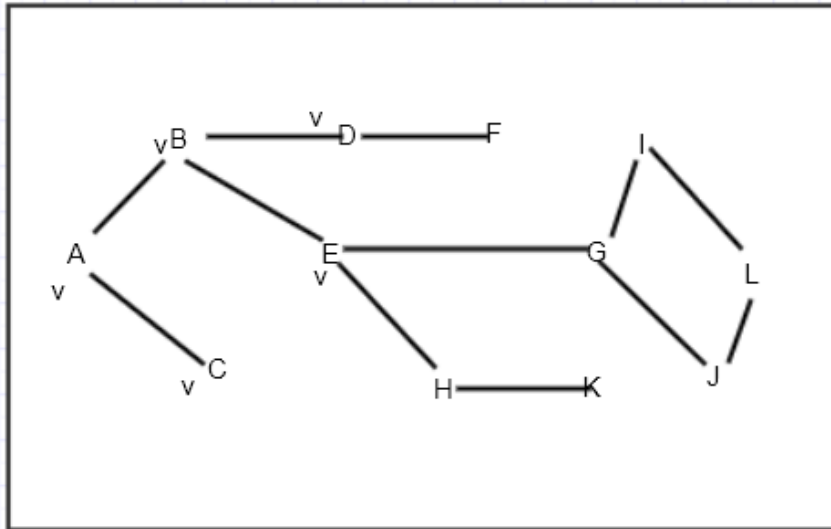Visited count: A   B   C   D   E   F   G   H   I   J   K   L

1	1	1	0	0	0	0	0	0	0	0	0

Queue: B   C

Print: A

1. Add B, C to the queue
2. Mark B, C as visited

Step 5:

Visited count:	A	B	C	D	E	F	G	H	I	J	K	L
	1	1	1	1	1	0	0	0	0	0	0	0

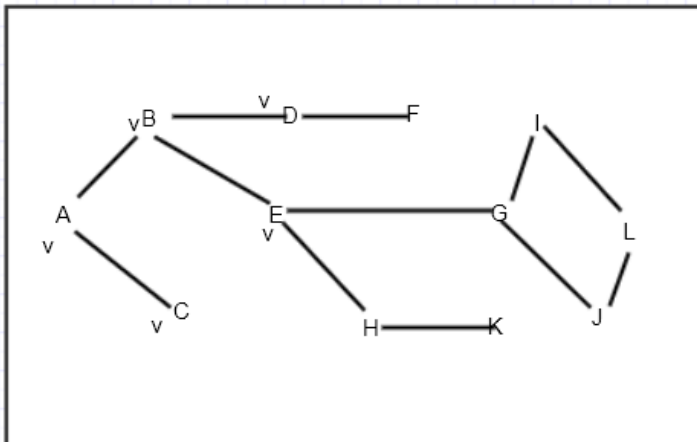Queue: C   D   E

Print: A   B

1. Add D,E to the queue
2. Mark D, E as visited
3. Remove B from the queue
4. Print B

Step 6:

Visited count:

	A	B	C	D	E	F	G	H	I	J	K	L
	1	1	1	1	1	0	0	0	0	0	0	0

Queue: D   E

Print: A   B   C

1. Remove C from queue
2. Print C

Step 7:
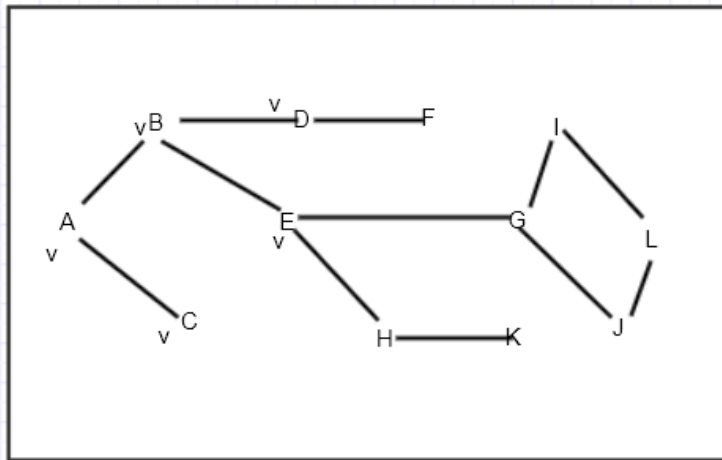
Visited count:

	A	B	C	D	E	F	G	H	I	J	K	L
	1	1	1	1	1	0	0	0	0	0	0	0

Queue: E

Print: A   B   C   D

Remove D from queue

1. Remove D from the queue
2. Print D

Step 8:
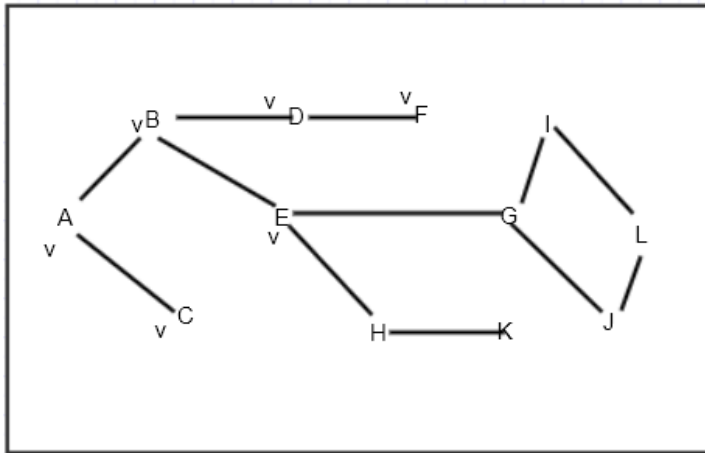
Visited count:

	A	B	C	D	E	F	G	H	I	J	K	L
	1	1	1	1	1	1	0	0	0	0	0	0

Queue: E   F

Print: A   B   C   D

1. Add F to the queue
2. Mark F as visited

Step 9:
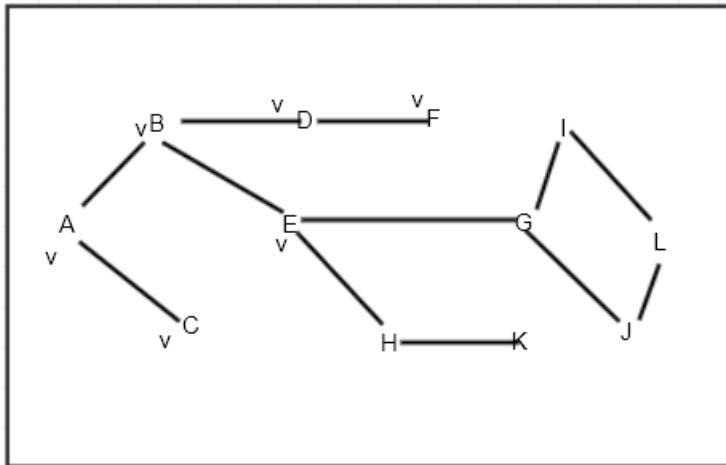
Visited count:

	A	B	C	D	E	F	G	H	I	J	K	L
	1	1	1	1	1	1	0	0	0	0	0	0

Queue: F

Print: A   B   C   D   E

1. Remove E from queue
2. Print E

Step 10:
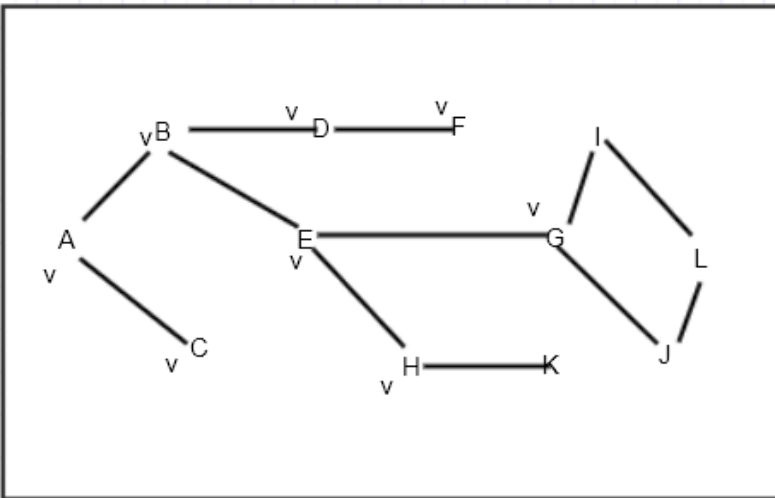
Visited count: A B C D E F G H I J K L

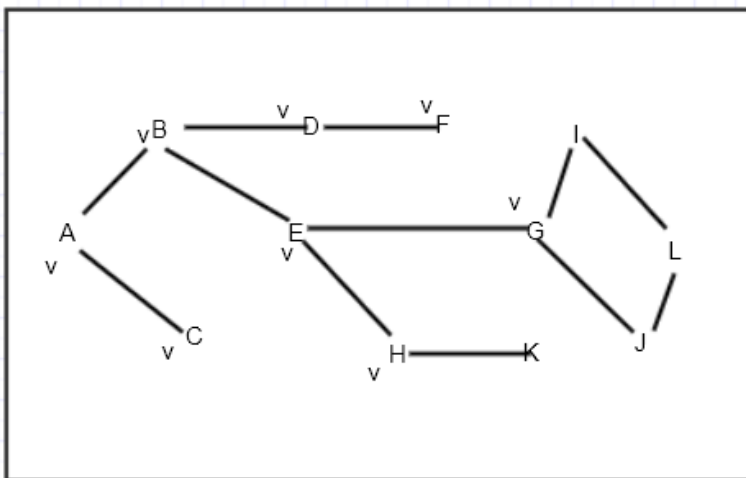| 1	1	1	1	1	1	1	1	0	0	0	0

Queue: F G H

Print: A B C D E

1. Add G, H to the queue
2. Mark G, H as visited

Step 11:

Visited count: A B C D E F G H I J K L
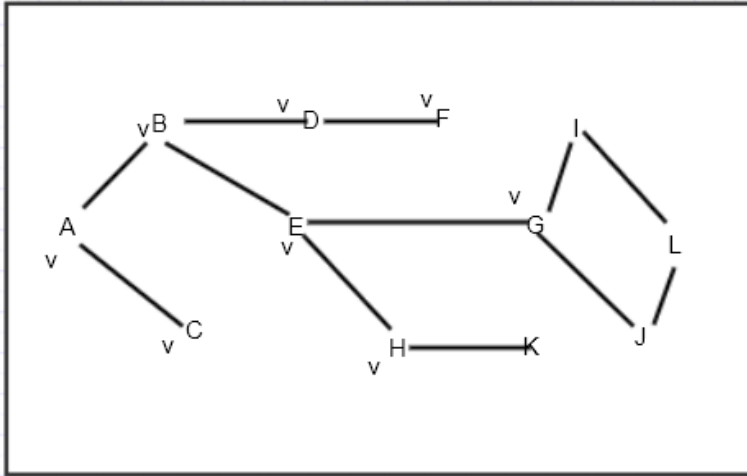
1	1	1	1	1	1	1	1	0	0	0	0

Queue: G H

Print: A   B   C   D   E   F

1. Remove F from queue
2. Print F

Step 12:

Visited count: A   B   C   D   E   F   G   H   I   J   K   L

1	1	1	1	1	1	1	1	0	0	0	0

Queue: H

Print: A   B   C   D   E   F   G

1. Remove G from queue
2. Print G

Step13:

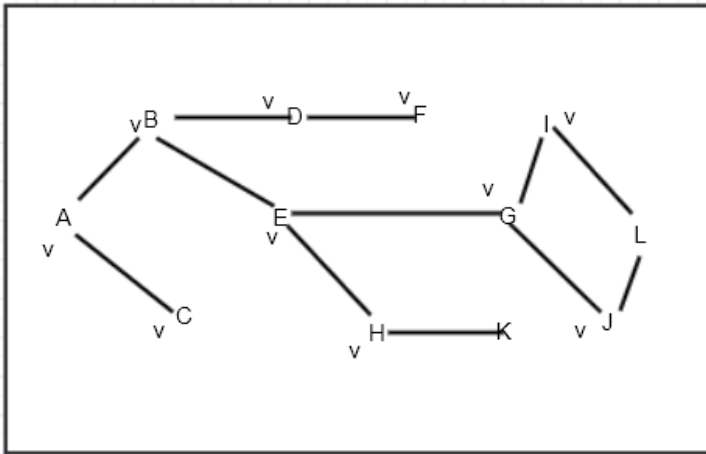Visited count: A   B   C   D   E   F   G   H   I   J   K   L

1	1	1	1	1	1	1	1	1	1	0	0

Queue: H   I   J

Print: A   B   C   D   E   F   G

1. Add I, J to the queue
2. Mark I, J as visited

Step 14:

Visited count: A B C D E F G H I J K L

1	1	1	1	1	1	1	1	0	0	0	0

Queue: I   J

Print: A   B   C   D   E   F   G   H

1. Remove H from queue
2. Print H

Step 15:

Visited count:

	A	B	C	D	E	F	G	H	I	J	K	L
	1	1	1	1	1	1	1	1	1	1	0	0

Queue: J

Print: A   B   C   D   E   F   G   H   I

1. Remove I from queue
2. Print I

Step 16:

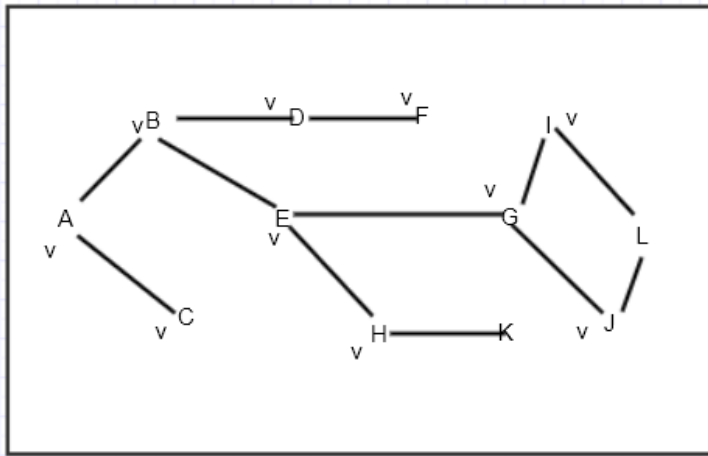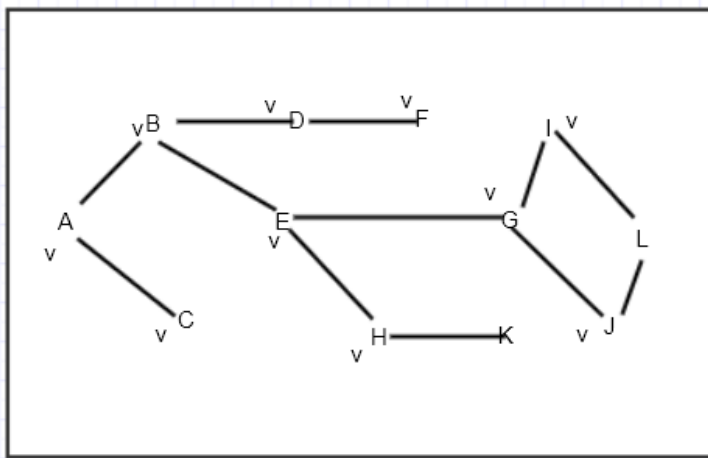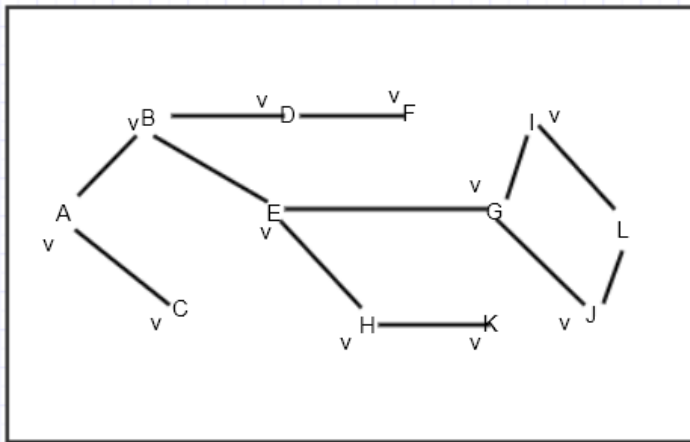Visited count: A   B   C   D   E   F   G   H   I   J   K   L

	A	B	C	D	E	F	G	H	I	J	K	L
	1	1	1	1	1	1	1	1	1	1	1	0

Queue: J   K

Print: A   B   C   D   E   F   G   H   I

1. Add K to the queue
2. Mark K as visited

Step 17:

Visited count:

	A	B	C	D	E	F	G	H	I	J	K	L
	1	1	1	1	1	1	1	1	1	1	1	0

Queue: K

Print: A   B   C   D   E   F   G   H   J

1. Remove J from queue
2. Print J

Step 18:

Visited count:

	A	B	C	D	E	F	G	H	I	J	K	L
	1	1	1	1	1	1	1	1	1	1	1	1

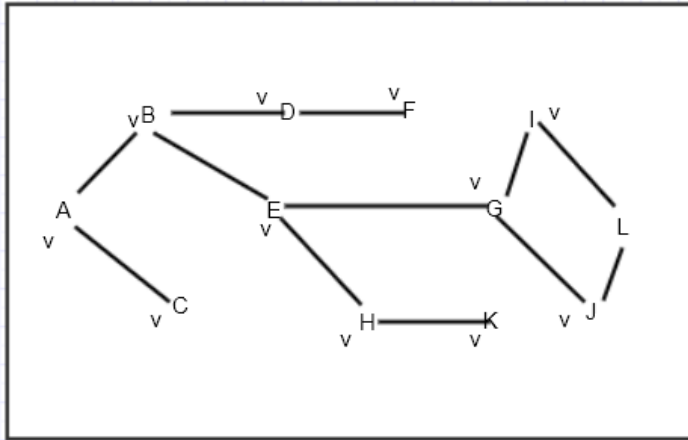Queue: K   L

Print: A   B   C   D   E   F   G   H   J

1. Add L to the queue
2. Mark L as visited

Step 19:

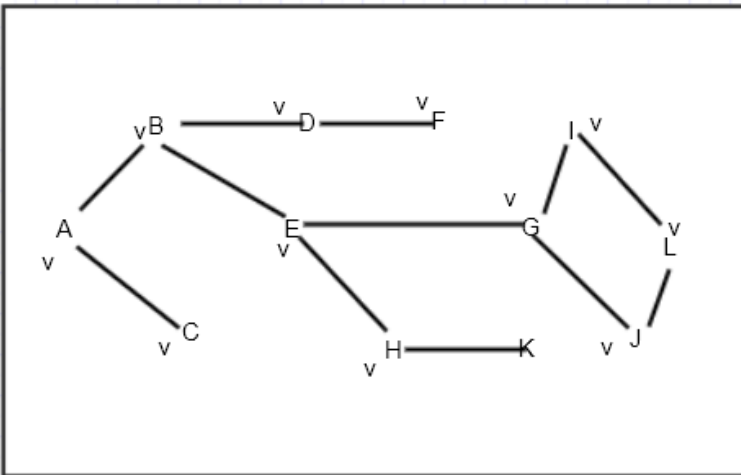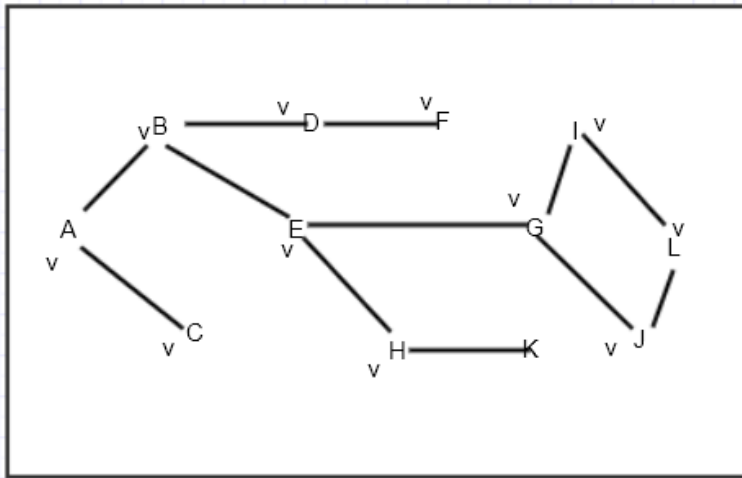Visited count: A   B   C   D   E   F   G   H   I   J   K   L

1	1	1	1	1	1	1	1	1	1	1	1

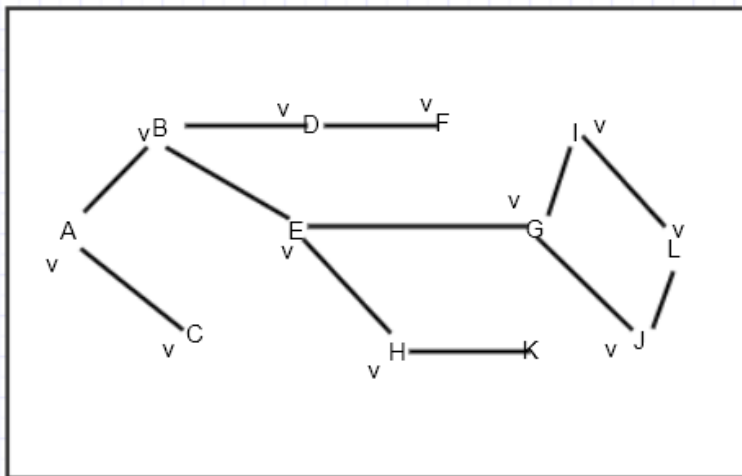Queue: L

Print: A   B   C   D   E   F   G   H   J   K

1. Remove K from queue
2. Print K

Step 20:

Visited count: A   B   C   D   E   F   G   H   I   J   K   L

1	1	1	1	1	1	1	1	1	1	1	1

Queue:

Print: A   B   C   D   E   F   G   H   J   K   L

1. Remove L from queue
2. Print L