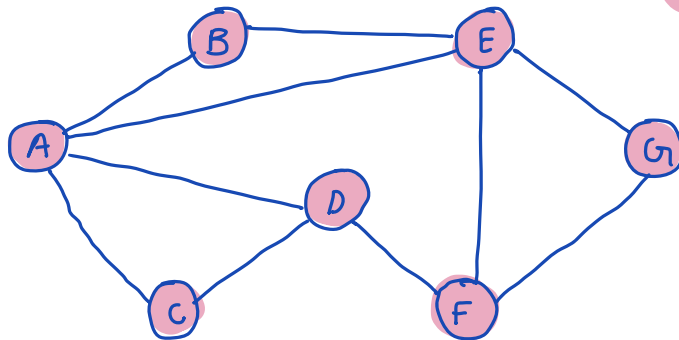


Depthfirst (stack)



visited

new = elements

old = element used

$L\{?\}$ = possible paths

T = path to follow



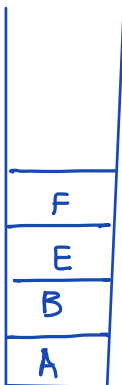
new = {B, C, D, E, F, G}
old = {A}
 $L\{A\} = \{B, C, D, E\}$
T = {}



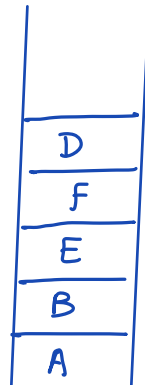
new = {C, D, E, F, G}
old = {A, B}
 $L\{B\} = \{A, E\}$
T = {(A, B)}



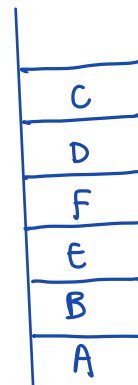
new = {C, D, F, G}
old = {A, B, E}
 $L\{E\} = \{B, G, A\}$
T = {(A, B), (B, E)}



new = {C, D, G}
old = {A, B, E, F}
 $L\{F\} = \{E, G, D\}$
T = {(A, B), (B, E), (E, F)}



new = {C, G}
old = {A, B, E, F, D}
 $L\{D\} = \{A, C, F\}$
T = {(A, B), (B, E), (E, F), (F, D)}



new = {G}
old = {A, B, E, F, D, C}
 $L\{C\} = \{D, A\}$
T = {(A, B), (B, E), (E, F), (F, D), (D, C)}

G
E
B
A

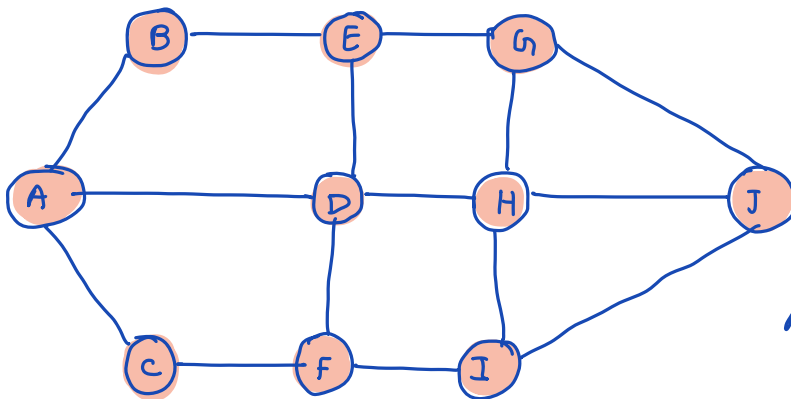
$$new = \{\}$$

$$old = \{A, B, C, D, E, F, G\}$$

$$L\{G\} = \{E, F\}$$

$$T = \{(A, B), (B, E), (E, F), (F, D), (D, C), (E, G)\}$$

Depth-first (stack)



visited

new = { }

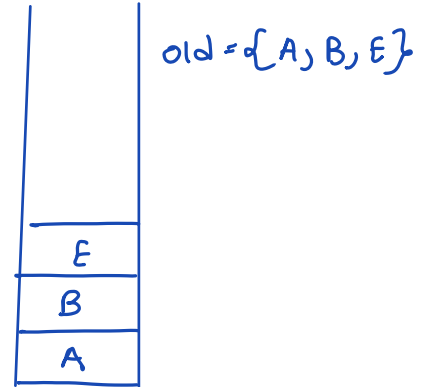
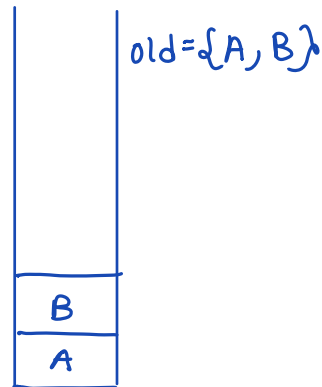
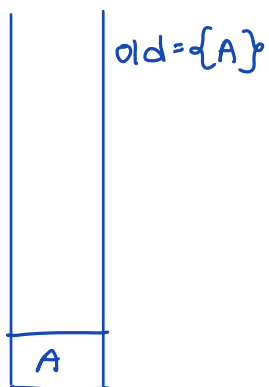
old = { }

L{?} =

T =

A, B, E, D, F, C, I, H, G, J

↓
pop



new = {B, C, D, E, F, G, H, I}

L{A} = {B, C, D}

T = { }

new = {C, D, E, F, G, H, I}

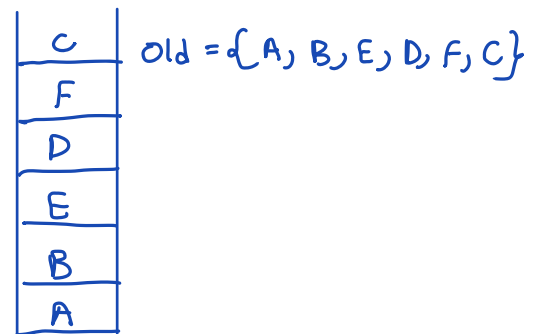
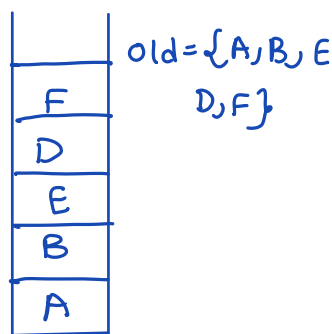
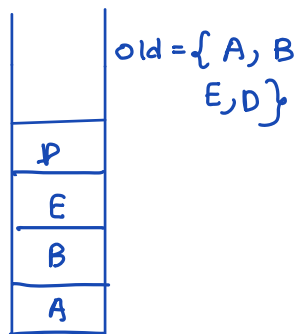
L{B} = {E, A}

T = {(A, B)}

new = {C, D, F, G, H, I}

L{E} = {D, G}

T = {(A, B), (B, E)}



new = {C, F, G, H, I}

L{D} = {E, F, A}

T = {(A, B), (B, E), (E, D)}

new = {C, G, H, I}

L{F} = {D, C, I}

T = {(A, B), (B, E), (E, D), (D, F)}

new = {G, H, I}

L{C} = {A, F}

T = {(A, B), (B, E), (E, D), (D, F), (F, C)}

I
F
D
E
B
A

$new = \{G, H, J\}$
 $old = \{A, B, E, D, F, I\}$
 $L\{I\} = \{F, H, J\}$
 $T = \{(A, B), (B, E), (E, D), (D, F)$
 $(F, C), (C, F), (F, I)\}$

H
I
F
D
E
B
A

$new = \{G, J\}$
 $old = \{A, B, E, D, F, I, H\}$
 $L\{H\} = \{D, G, I, J\}$
 $T = \{(A, B), (B, E), (E, D)$
 $(D, F), (F, C), (C, F), (F, I)$
 $(I, J)\}$

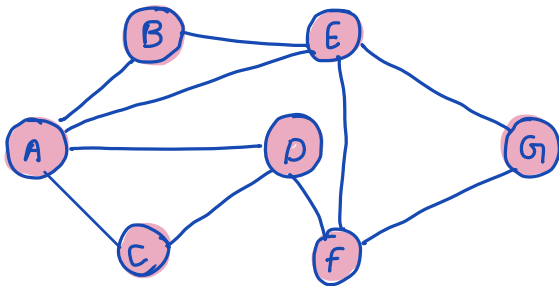
G
H
I
F
D
E
B
A

$new = \{J\}$
 $old = \{A, B, E, D, F, I, H, G\}$
 $L\{G\} = \{E, H, J\}$
 $T = \{(A, B), (B, E), (E, D), (D, F)$
 $(F, C), (C, F), (F, I), (I, H), (H, G)\}$

J
G
H
I
F
D
E
B
A

$new = \{J\}$
 $old = \{A, B, E, D, F, I, H, G, J\}$
 $L\{J\} = \{G, H, I\}$
 $T = \{(A, B), (B, E), (E, D), (D, F)$
 $(F, C), (C, F), (F, I), (I, H), (H, G), (G, J)\}$

Breadth-first (Queues)



A

new = {B, C, D, E, F, G}

old = {A}

L(A) = {B, C, D, E}

T = {}

B | C | D | E

new = {F, G}

old = {A, B, C, D, E}

L(B) = {E, A}

T = {(A, B), (A, C), (A, D), (A, E)}

C | D | E

new = {F, G}

old = {A, B, C, D, E}

L(C) = {A, D}

T = {(A, B), (A, C), (A, D), (A, E)}

D | E | F

new = {G}

old = {A, B, C, D, E, F}

L(D) = {A, C, F}

T = {(A, B), (A, C), (A, D), (A, E), (D, F)}

E | F | G

new = {}

old = {A, B, C, D, E, F, G}

L(E) = {B, A, F, G}

T = {(A, B), (A, C), (A, D), (A, E), (D, F), (E, G)}

F | G

new = {}

old = {A, B, C, D, E, F, G}

L(F) = {D, G, E}

T = {(A, B), (A, C), (A, D), (A, E), (D, F), (E, G)}

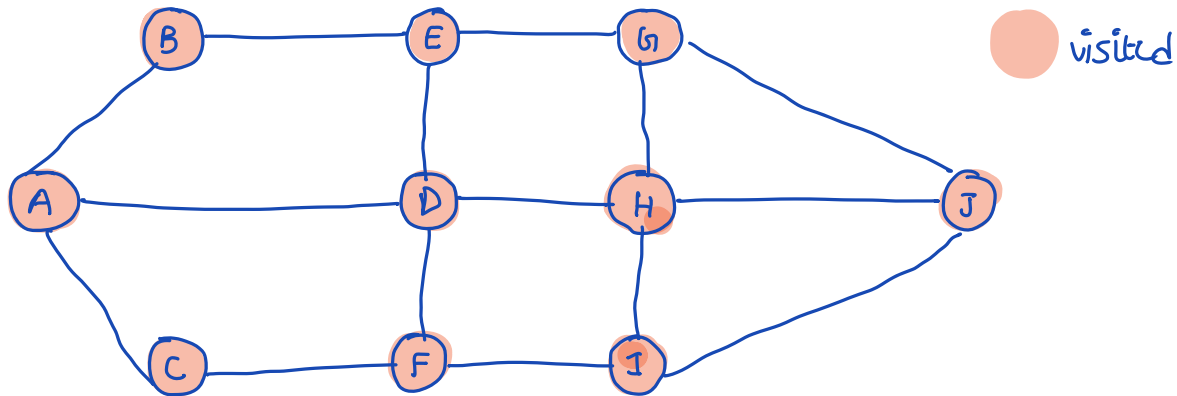
G

new = {A, B, C, D, E, F, G}

old = {A, B, C, D, E, F, G}

L(G) = {E, F}

T = {(A, B), (A, C), (A, D), (A, E), (D, F), (E, G)}



A	
---	--

$old = \{A\}$
 $new = \{B, C, D, E, F, G, H, I, J\}$
 $L(A) = \{B, D, C\}$
 $T(\cdot) = \{\}$

B	C	D
---	---	---

$old = \{A, B, C, D\}$
 $new = \{E, F, G, H, I, J\}$
 $L(B) = \{A, E\}$
 $T = \{(A, B)(A, C)(A, D)\}$

C	D	E
---	---	---

$old = \{A, B, C, D, E\}$
 $new = \{F, G, H, I, J\}$
 $L(C) = \{A, F\}$
 $T = \{(A, B)(A, C)(A, D)(B, E)\}$

D	E	F
---	---	---

$old = \{A, B, C, D, E, F\}$
 $new = \{G, H, I, J\}$
 $L(D) = \{A, E, F, H\}$
 $T = \{(A, B)(A, C)(A, D)(B, E)(E, F)\}$

E	F	H
---	---	---

$old = \{A, B, C, D, E, F, H\}$
 $new = \{G, I, J\}$
 $L(E) = \{B, D, G\}$
 $T = \{(A, B)(A, C)(A, D)(B, E)(E, F)\}$

F	H	G
---	---	---

$old = \{A, B, C, D, E, F, G, H\}$
 $new = \{I, J\}$
 $L(F) = \{C, D, I\}$
 $T = \{(A, B)(A, C)(A, D)(B, E)(E, F)(H, G)\}$

G	H	I	J
---	---	---	---

$old = \{A, B, C, D, E, F, G, H, I, J\}$
 $new = \{\}$
 $L(G) = \{E, J, H\}$
 $T = \{(A, B)(A, C)(A, D)(B, E)(E, F)(G, H)(H, I)\}$

H	I	J
---	---	---

$old = \{A, B, C, D, E, F, G, H, I, J\}$
 $new = \{\}$
 $L(H) = \{D, I, G, J\}$
 $T = \{(A, B)(A, C)(A, D)(B, E)(E, F)(G, H)(H, I)(I, J)\}$

I	J
---	---

$old = \{A, B, C, D, E, F, G, H, I, J\}$
 $new = \{\}$
 $L(I) = \{H, F, J\}$
 $T = \{(A, B)(A, C)(A, D)(B, E)(E, F)(G, H)(H, I)(I, J)\}$

J				
---	--	--	--	--

$old = \{A, B, C, D, E, F, G, H, I, J\}$

$new = \{A, B, C, D, E, F, G, H, I, J\}$

$L(J) = \{G, H, I\}$

$T = \{(A, B) (A, C) (A, D) (D, E)$
 $(E, F) (G, H) (H, I) (I, J)\}$