

	Stack	Visited List
1	<p>→ Add starting vertex, i.e. <b>BOS</b>'s neighbors in stack to get:  <b>Stack</b> = [ SFO, MIA, JFK ]</p> <p>→ And <b>BOS</b> becomes the current vertex in the Visited List</p>	[ BOS* ]
2	<p>→ Pop <b>JFK</b>, and check if already visited  → It is <u>not</u> in the list, so mark it as visited by adding to the Visited List</p> <p>→ Add this vertex, i.e. <b>JFK</b>'s neighbors in stack to get:  <b>Stack</b> = [ SFO, MIA, SFO, MIA, DFW, BOS ]</p> <p>→ Now <b>JFK</b> becomes the current vertex</p>	[ BOS, JFK* ]
3	<p>→ Pop <b>BOS</b>, and check if already visited  → It is <u>already</u> in the list, so no need to add it back to the Visited List</p> <p>→ As <b>BOS</b> is already visited so do nothing, but popping it out from stack  <b>Stack</b> = [ SFO, MIA, SFO, MIA, DFW ]</p> <p>→ <b>A</b> is still the current vertex</p>	[ BOS, JFK* ]
4	<p>→ Pop <b>DFW</b>, and check if already visited  → It is <u>not</u> in the list, so mark it as visited by adding to the Visited List</p> <p>→ Add current vertex, i.e. <b>DFW</b>'s neighbors in stack to get:  <b>Stack</b> = [ SFO, MIA, SFO, MIA, SFO, ORD, LAX ]</p> <p>→ Now <b>DFW</b> becomes the current vertex</p>	[ BOS, JFK, DFW* ]
5	<p>→ Pop <b>LAX</b>, and check if already visited  → It is <u>not</u> in the list, so mark it as visited by adding to the Visited List</p> <p>→ Add current vertex, i.e. <b>LAX</b>'s neighbors in stack to get:  <b>Stack</b> = [ SFO, MIA, SFO, MIA, SFO, ORD, ORD ]</p> <p>→ Now <b>LAX</b> becomes the current vertex</p>	[ BOS, JFK, DFW, LAX* ]
6	<p>→ Pop <b>ORD</b>, and check if already visited  → It is <u>not</u> in the list, so mark it as visited by adding to the Visited List</p> <p>→ Add current vertex, i.e. <b>ORD</b>'s neighbors in stack to get:  <b>Stack</b> = [ SFO, MIA, SFO, MIA, SFO, ORD, MIA, DFW ]</p> <p>→ Now <b>ORD</b> becomes the current vertex</p>	[ BOS, JFK, DFW, LAX, ORD* ]
7	<p>→ Pop <b>DFW</b>, and check if already visited  → It is <u>already</u> in the list, so no need to add it back to the Visited List</p> <p>→ As <b>DFW</b> is already visited so do nothing, but popping it out from stack  <b>Stack</b> = [ SFO, MIA, SFO, MIA, SFO, ORD, MIA ]</p> <p>→ <b>ORD</b> is still the current vertex</p>	[ BOS, JFK, DFW, LAX, ORD* ]
8	<p>→ Pop <b>MIA</b>, and check if already visited  → It is <u>not</u> in the list, so mark it as visited by adding to the Visited List</p> <p>→ Add current vertex, i.e. <b>MIA</b>'s neighbors in stack to get:  <b>Stack</b> = [ SFO, MIA, SFO, MIA, SFO, ORD, LAX, DFW ]</p> <p>→ Now <b>MIA</b> becomes the current vertex</p>	[ BOS, JFK, DFW, LAX, ORD, MIA* ]
9	<p>→ Pop <b>DFW</b>, and check if already visited  → It is <u>already</u> in the list, so no need to add it back to the Visited List</p> <p>→ As <b>DFW</b> is already visited so do nothing, but popping it out from stack  <b>Stack</b> = [ SFO, MIA, SFO, MIA, SFO, ORD, LAX ]</p> <p>→ <b>MIA</b> is still the current vertex</p>	[ BOS, JFK, DFW, LAX, ORD, MIA* ]
10	<p>→ Pop <b>LAX</b>, and check if already visited  → It is <u>already</u> in the list, so no need to add it back to the Visited List</p> <p>→ As <b>LAX</b> is already visited so do nothing, but popping it out from stack  <b>Stack</b> = [ SFO, MIA, SFO, MIA, SFO, ORD ]</p> <p>→ <b>MIA</b> is still the current vertex</p>	[ BOS, JFK, DFW, LAX, ORD, MIA* ]

11	<p>→ Pop <b>ORD</b> , and check if already visited</p> <p>→ It is <u>already</u> in the list, so no need to add it back to the Visited List</p> <p>→ As <b>ORD</b> is already visited so do nothing, but popping it out from stack</p> <p><b>Stack</b> = [ SFO, MIA, SFO, MIA, SFO ]</p> <p>→ <b>MIA</b> is still the current vertex</p>	[ BOS, JFK, DFW, LAX, ORD, MIA* ]
12	<p>→ Pop <b>SFO</b> , and check if already visited</p> <p>→ It is <u>not</u> in the list, so mark it as visited by adding to the Visited List</p> <p>→ Add this vertex, i.e. <b>SFO</b> 's neighbors in stack to get:</p> <p><b>Stack</b> = [ SFO, MIA, SFO, MIA, LAX ]</p> <p>→ Now <b>SFO</b> becomes the current vertex</p>	[ BOS, JFK, DFW, LAX, ORD, MIA, SFO* ]
13	<p>→ Pop <b>LAX</b> , and check if already visited</p> <p>→ It is <u>already</u> in the list, so no need to add it back to the Visited List</p> <p>→ As <b>LAX</b> is already visited so do nothing, but popping it out from stack</p> <p><b>Stack</b> = [ SFO, MIA, SFO, MIA ]</p> <p>→ <b>SFO</b> is still the current vertex</p>	[ BOS, JFK, DFW, LAX, ORD, MIA, SFO* ]
14	<p>→ Pop <b>MIA</b> , and check if already visited</p> <p>→ It is <u>already</u> in the list, so no need to add it back to the Visited List</p> <p>→ As <b>MIA</b> is already visited so do nothing, but popping it out from stack</p> <p><b>Stack</b> = [ SFO, MIA, SFO ]</p> <p>→ <b>SFO</b> is still the current vertex</p>	[ BOS, JFK, DFW, LAX, ORD, MIA, SFO* ]
15	<p>→ Pop <b>SFO</b> , and check if already visited</p> <p>→ It is <u>already</u> in the list, so no need to add it back to the Visited List</p> <p>→ As <b>SFO</b> is already visited so do nothing, but popping it out from stack</p> <p><b>Stack</b> = [ SFO, MIA ]</p> <p>→ <b>SFO</b> is still the current vertex</p>	[ BOS, JFK, DFW, LAX, ORD, MIA, SFO* ]
16	<p>→ Pop <b>MIA</b> , and check if already visited</p> <p>→ It is <u>already</u> in the list, so no need to add it back to the Visited List</p> <p>→ As <b>MIA</b> is already visited so do nothing, but popping it out from stack</p> <p><b>Stack</b> = [ SFO ]</p> <p>→ <b>SFO</b> is still the current vertex</p>	[ BOS, JFK, DFW, LAX, ORD, MIA, SFO* ]
17	<p>→ Pop <b>SFO</b> , and check if already visited</p> <p>→ It is <u>already</u> in the list, so no need to add it back to the Visited List</p> <p>→ As <b>SFO</b> is already visited so do nothing, but popping it out from stack</p> <p><b>Stack</b> = [ ]</p> <p>→ The stack is empty and all the vertices have been traversed, so the traversal ends here, &amp; the final order of visited list is: [ <b>BOS, JFK, DFW, LAX, ORD, MIA, SFO</b> ]</p>	[ BOS, JFK, DFW, LAX, ORD, MIA, SFO ]