

adjacency list

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0 → 1 → 3

1 → 2 → 3 → 5

2 → 1 → 3 → 4 → 5

3 → 0 → 1 → 4

4 → 2 → 3 → 6

5 → 1 → 2

6 → 1 → 4

traversal using DFS

0
1 3



0	1
2	3 5



0	1	2
3	4	5



0	1	2	3
4	5		



0	1	2	3	4
6	5			

→

0	1	2	3	4	6
5					

0	1	2	3	4	6	5
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Applications of DFS are

- i) solving puzzles
- ii) topological sorting