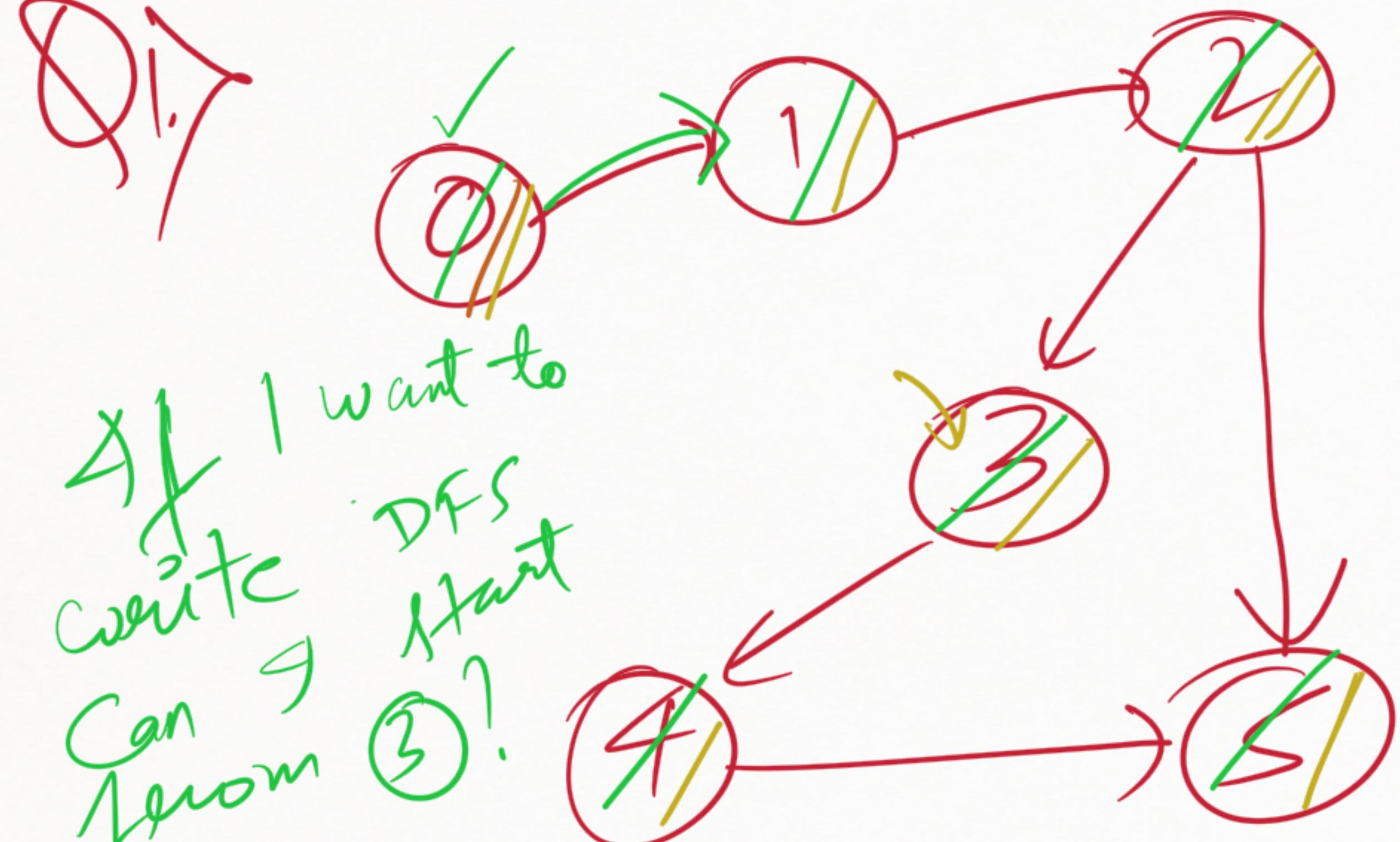


~~Q17~~

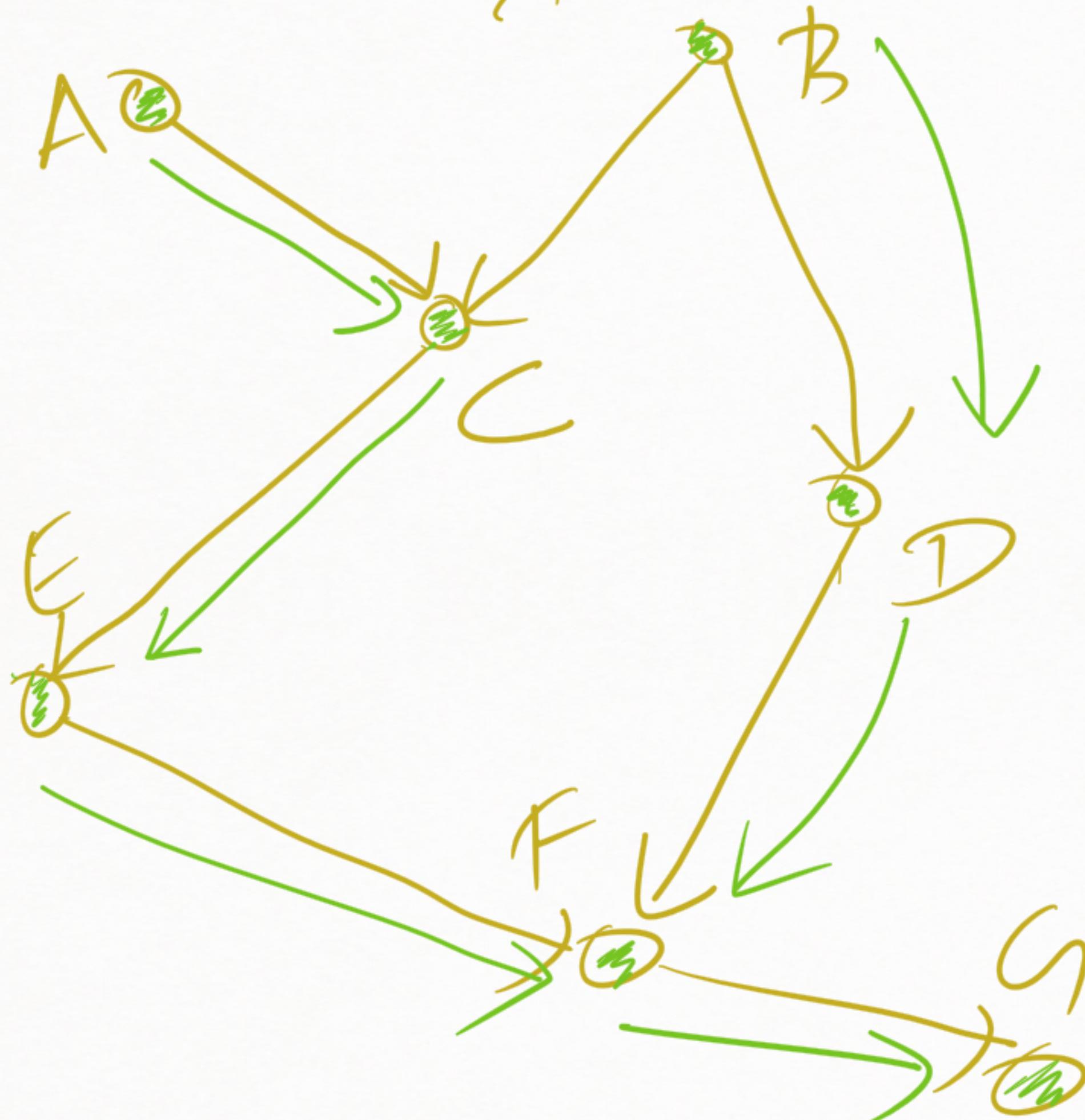
A) I want to  
write DFS  
Can start  
from ③?  
Yes



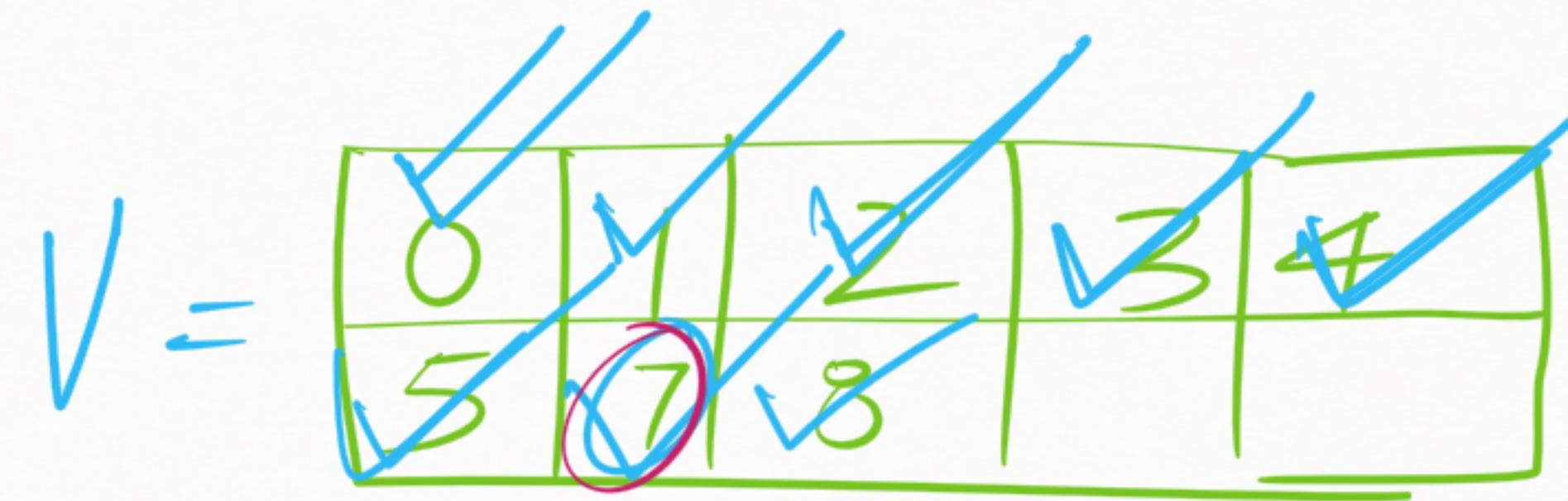
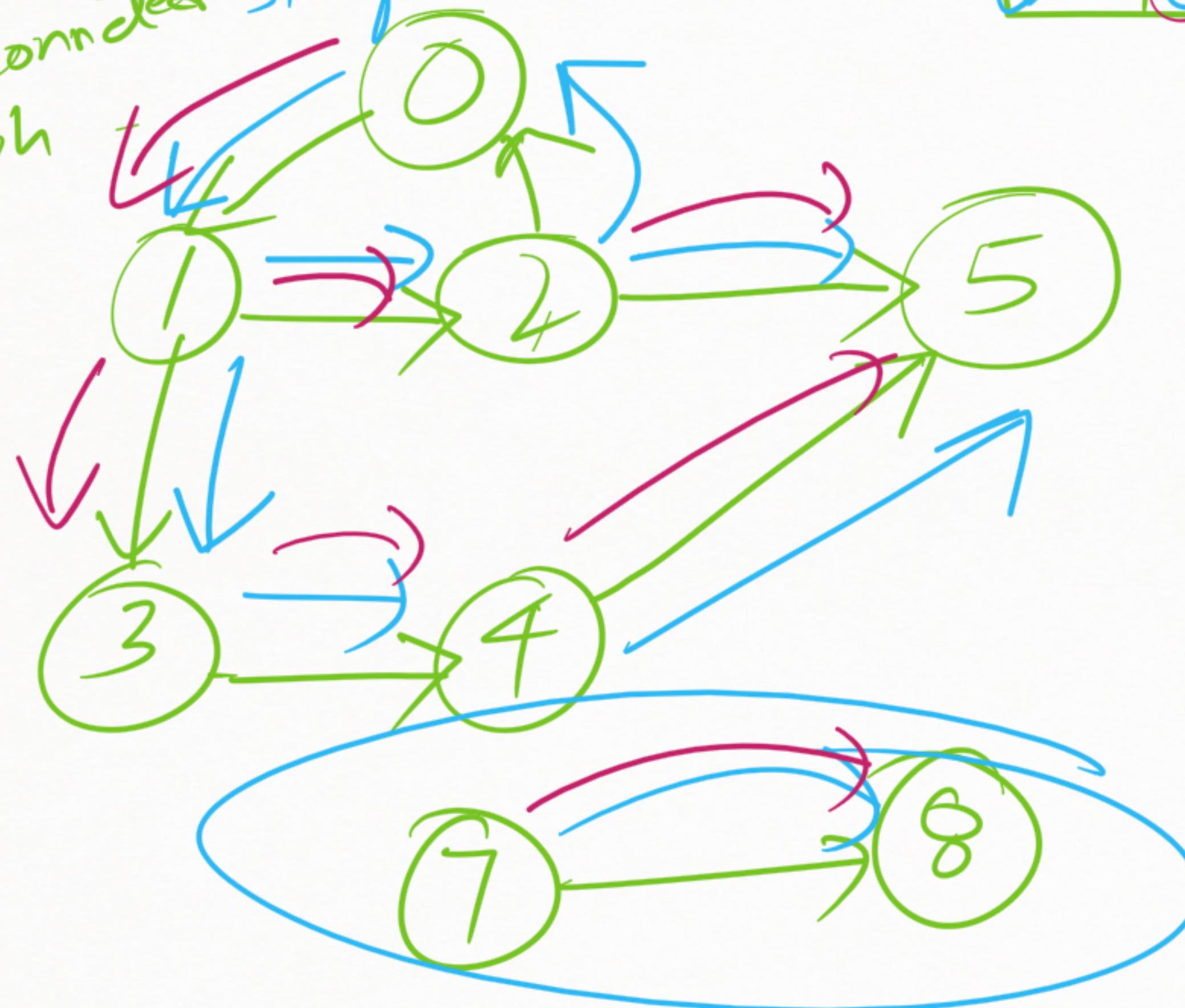
Which one of these option is DFS for  
the graph.

- A) 0 1 2 5 4 3
  - B) 0 1 2 3 4 5
  - C) 0 1 2 5 3 4
  - D) 0 1 2 3 5 4
- TS ~~DFS~~ for

# DFS Order for Directed G.



# DFS for  $G$   
 Disconnected Start from 0



→ 0 1 2 5 3 4 7 8

→ 0 1 3 4 5 2 7

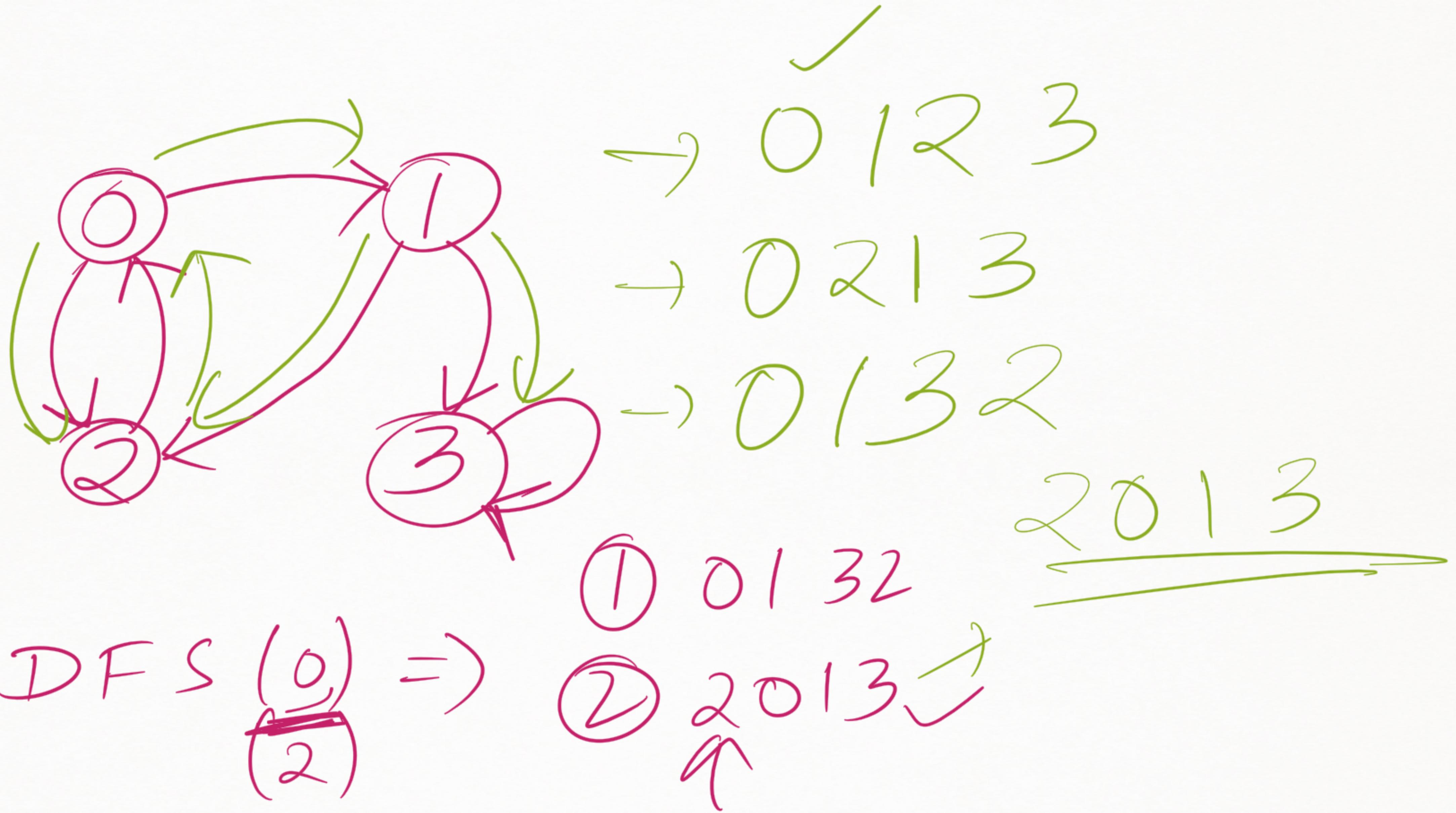
8

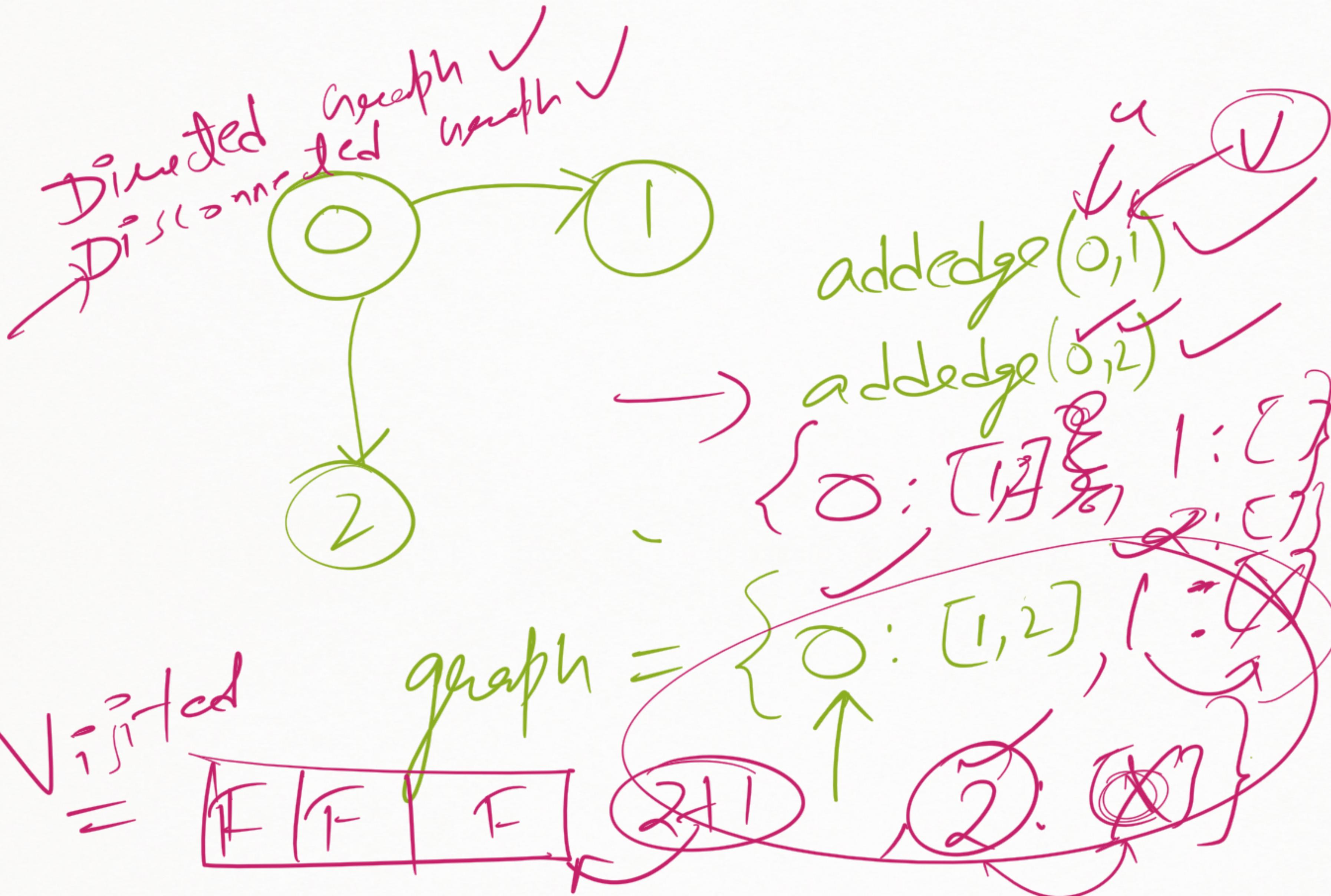
$\checkmark$  **Explore( $v$ )**

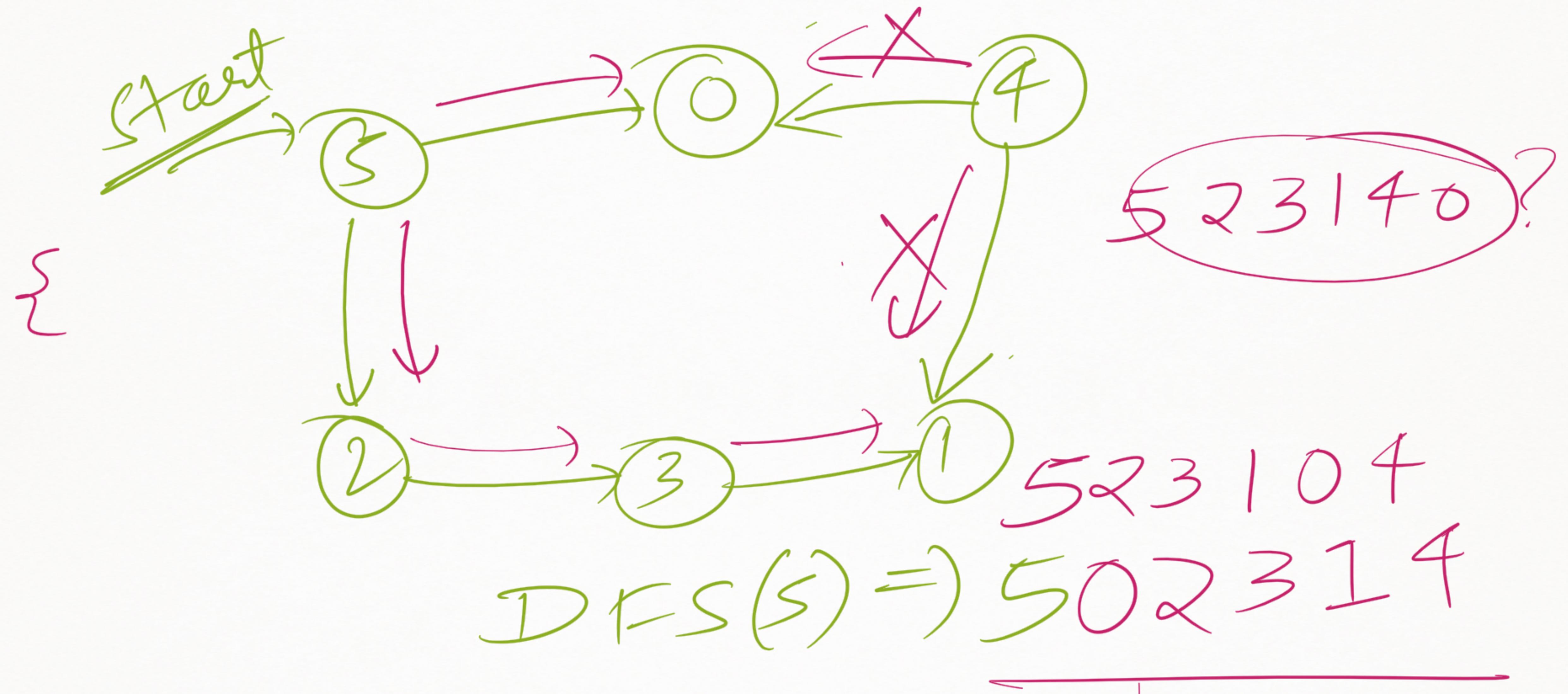
$\text{visited}(v) \leftarrow \text{true}$   $\checkmark$   
for  $(v, w) \in E$ :  
if not  $\text{visited}(w)$ :  
**Explore( $w$ )**

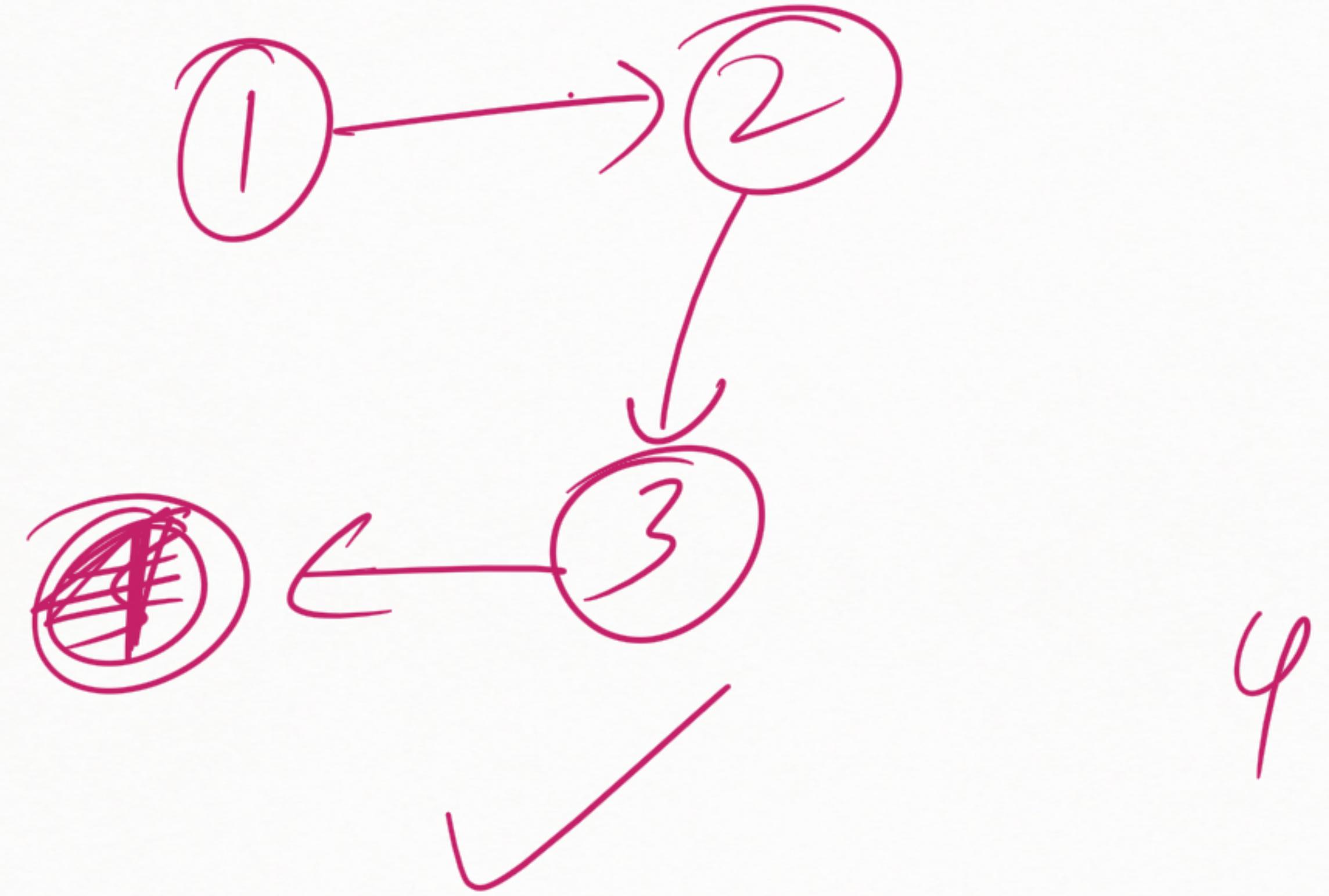
**DFS( $G$ )**

for all  $v \in V$ : mark  $v$  unvisited  
for  $v \in V$ :  
if not  $\text{visited}(v)$ :  
**Explore( $v$ )**

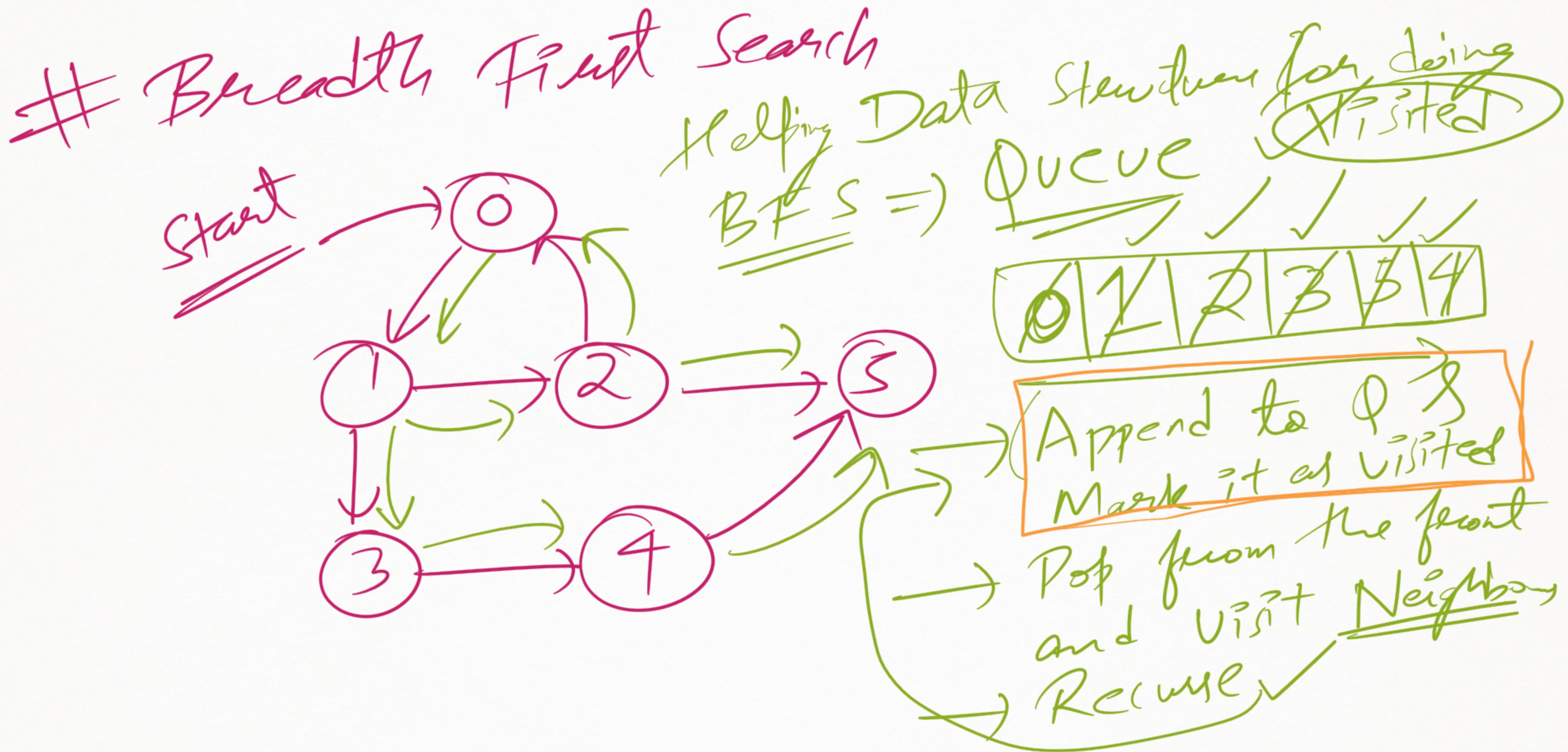


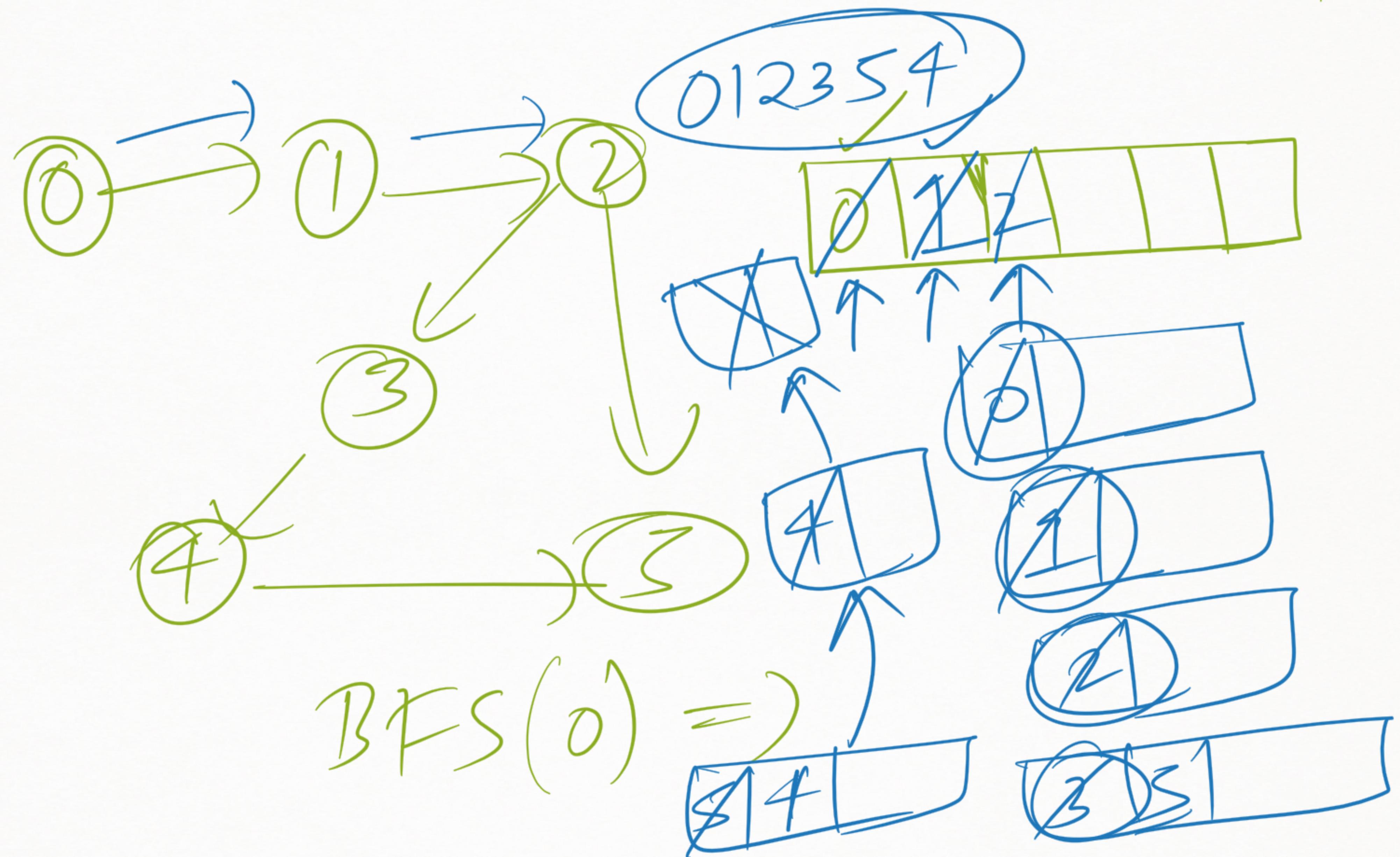


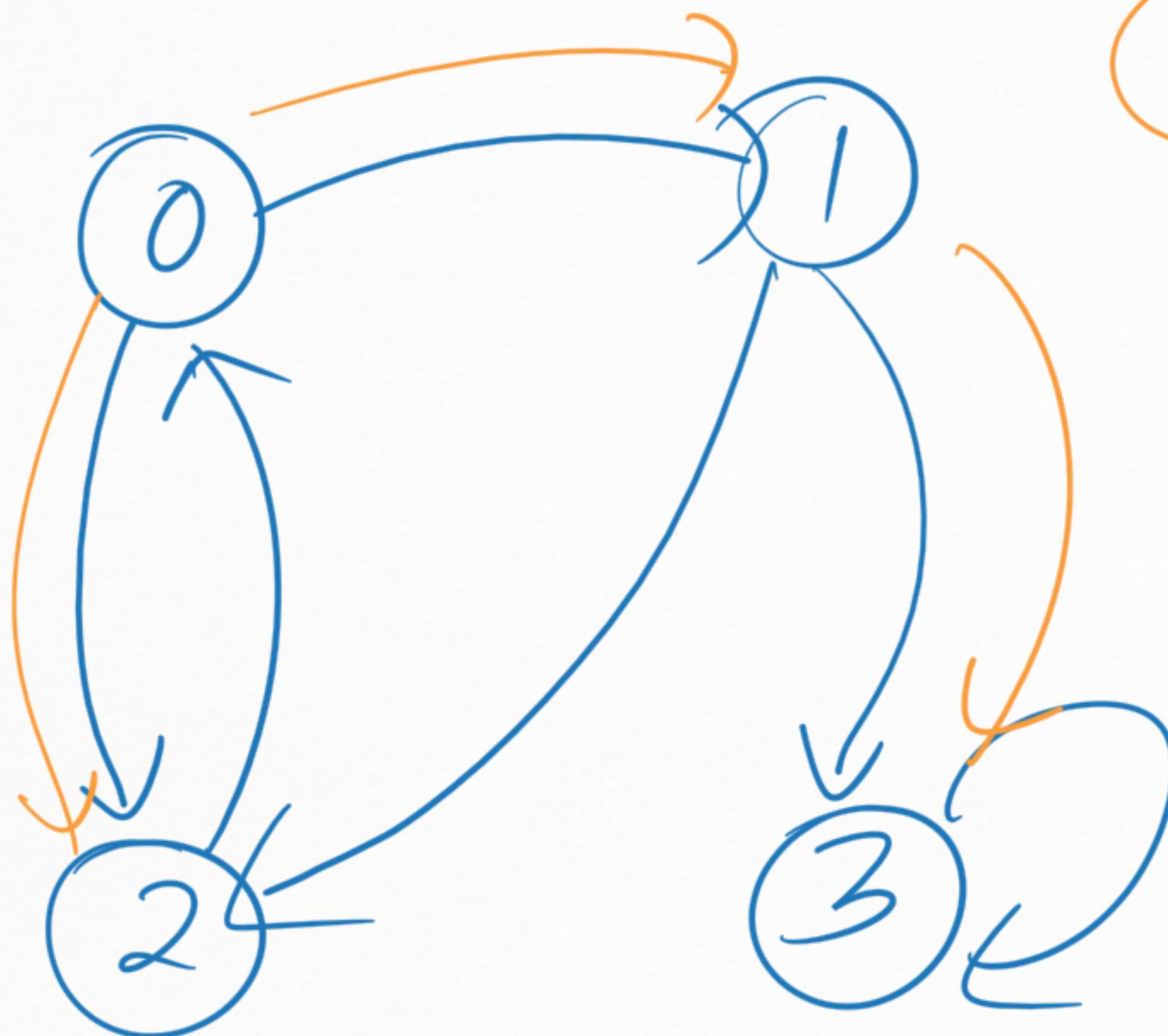




✓







BFS(0)

