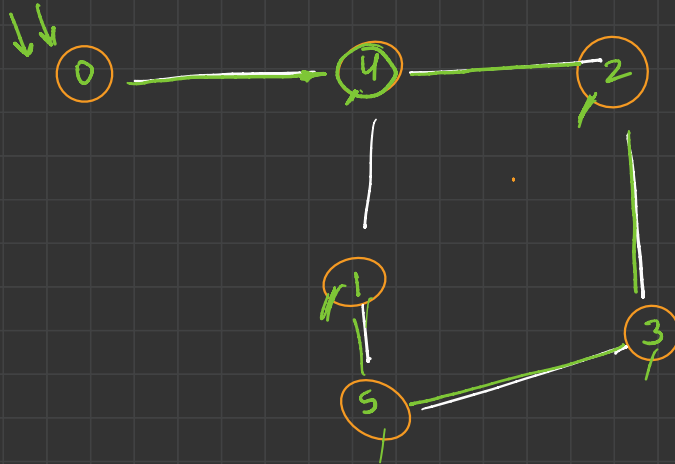



Graph

→ DFS (Depth first search)

DFS

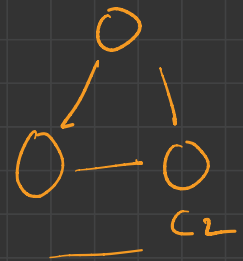


↓
BFS: 0, 4, 2, 1, 3, 5
↓
adjacent

DFS: 0, 4, 2, 3, 5, 1
↗

Lect # 1
 Now
 adj list

0 → 2
 1 → 2, 3
 2 → 0, 1, 4
 3 → 1, 4
 4 → 2, 3



dfs()

dfs(0)
 dfs(2)

dfs(1)

dfs(3)

dfs(4)

0
 2
 1
 3
 4

visited

II

$i^{th} \rightarrow T/F$
 0 → T
 2 → T
 1 → T
 3 → T
 4 → T

unordered_map <int, bool> vls

```
for (int i=0, <n)
{
  if (!visited[i])
  {
    dfs(i)
  }
}
```