Data Science &

AI

Artificial Intelligence

**Searching Algorithms** 

Lecture No. 02



## **Recap of Previous Lecture**









## **Topics to be Covered**

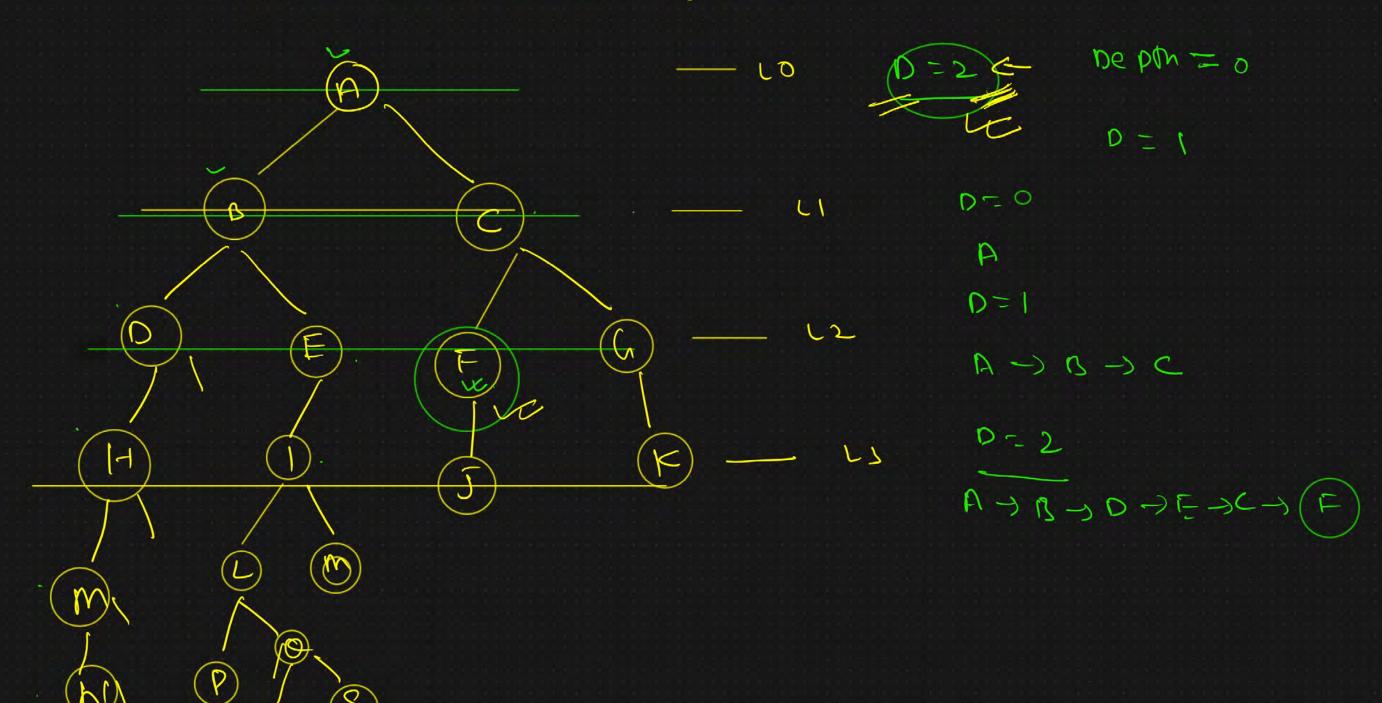








Depth limited Search Agonithm



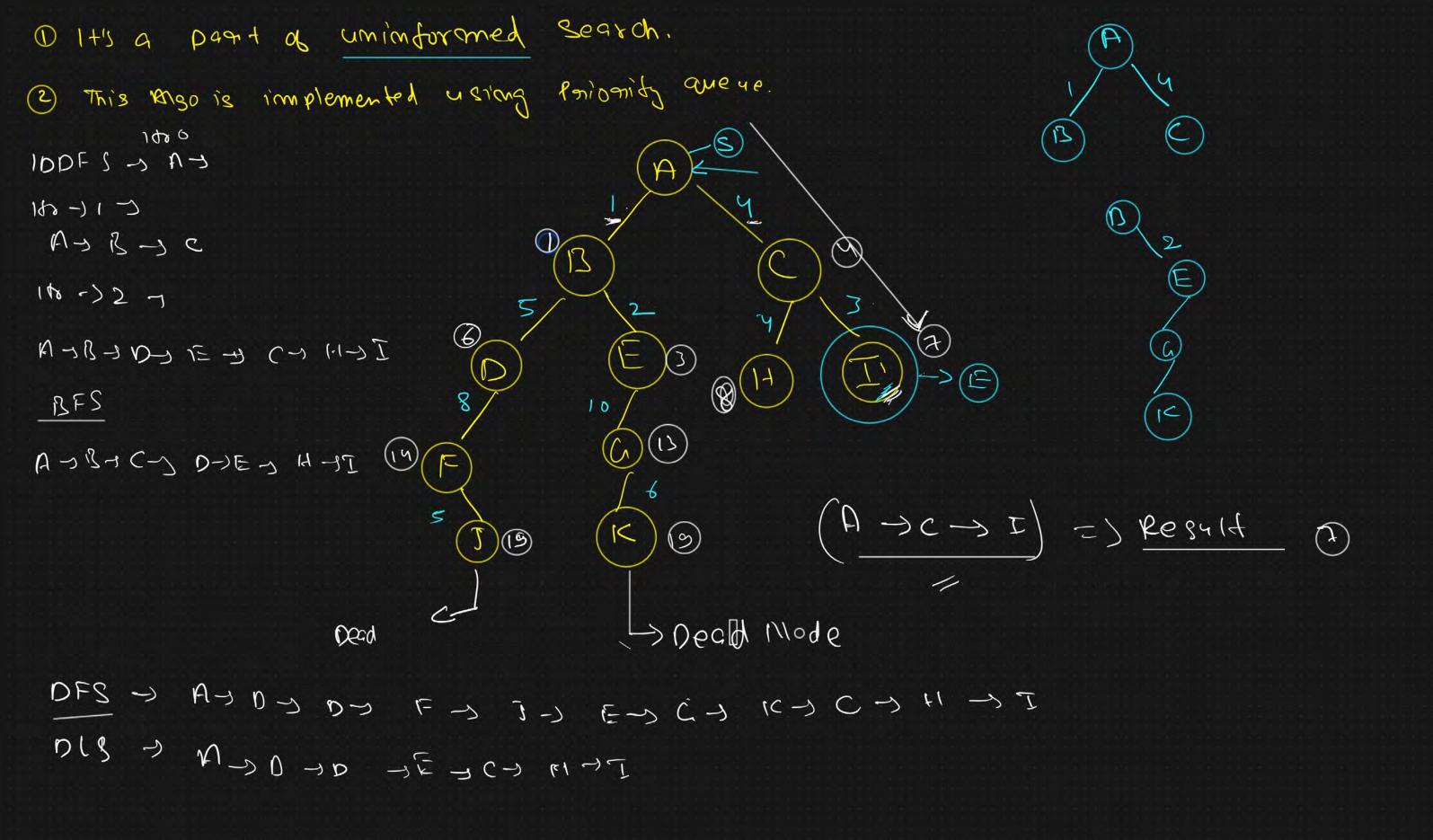
Heraque Deepening Depth First Search Myorian -> (IDDFS)

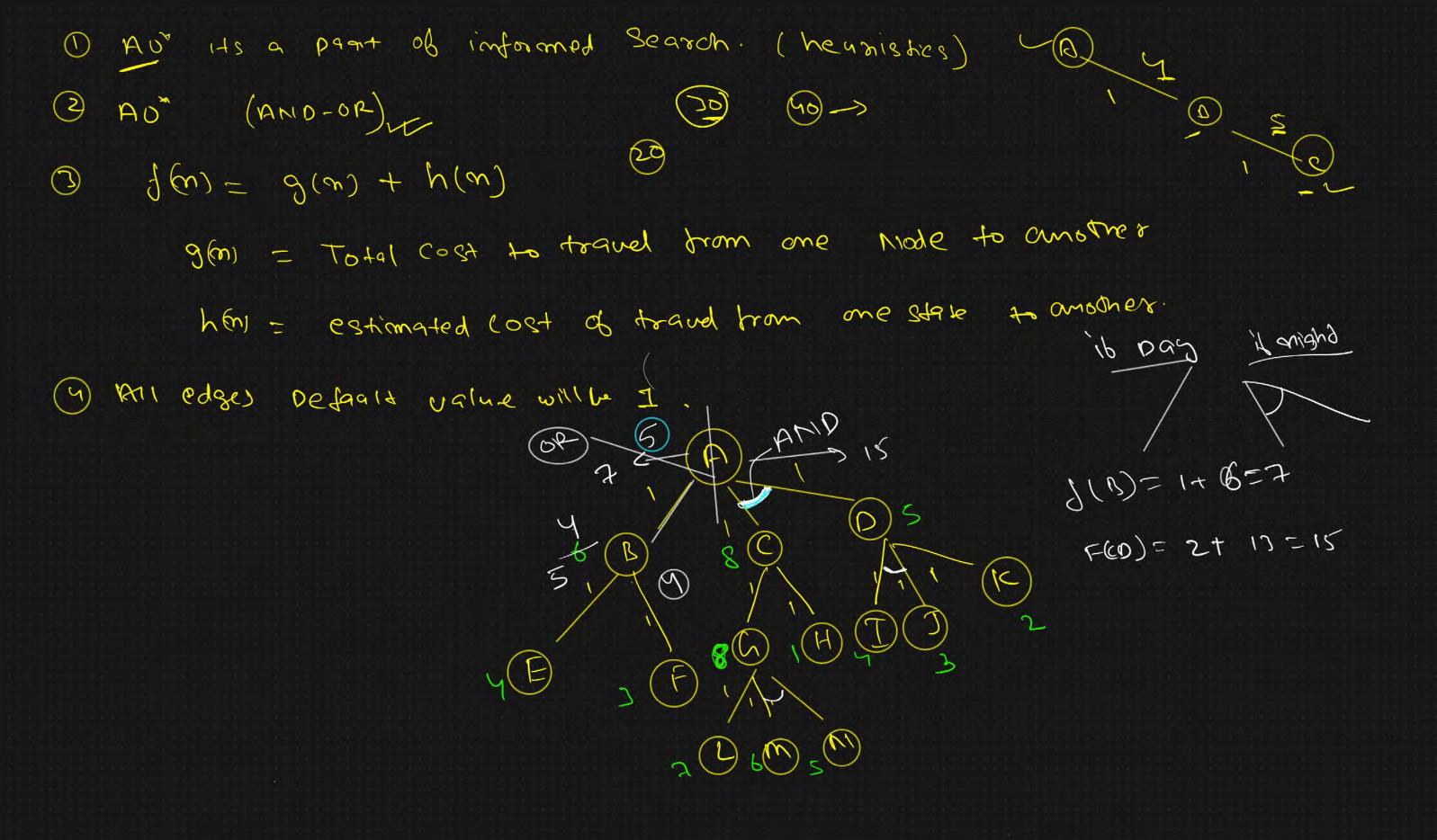
DFS DLS -> D= 2 148 -> 0 140-31 ANDAC 14 -12 カンロンロンモンしつと ころん 140-)3 A)C-CCACHCOCOCA Time complexity BFS, DFS, IDDFS, ÖZS -> O(b=)

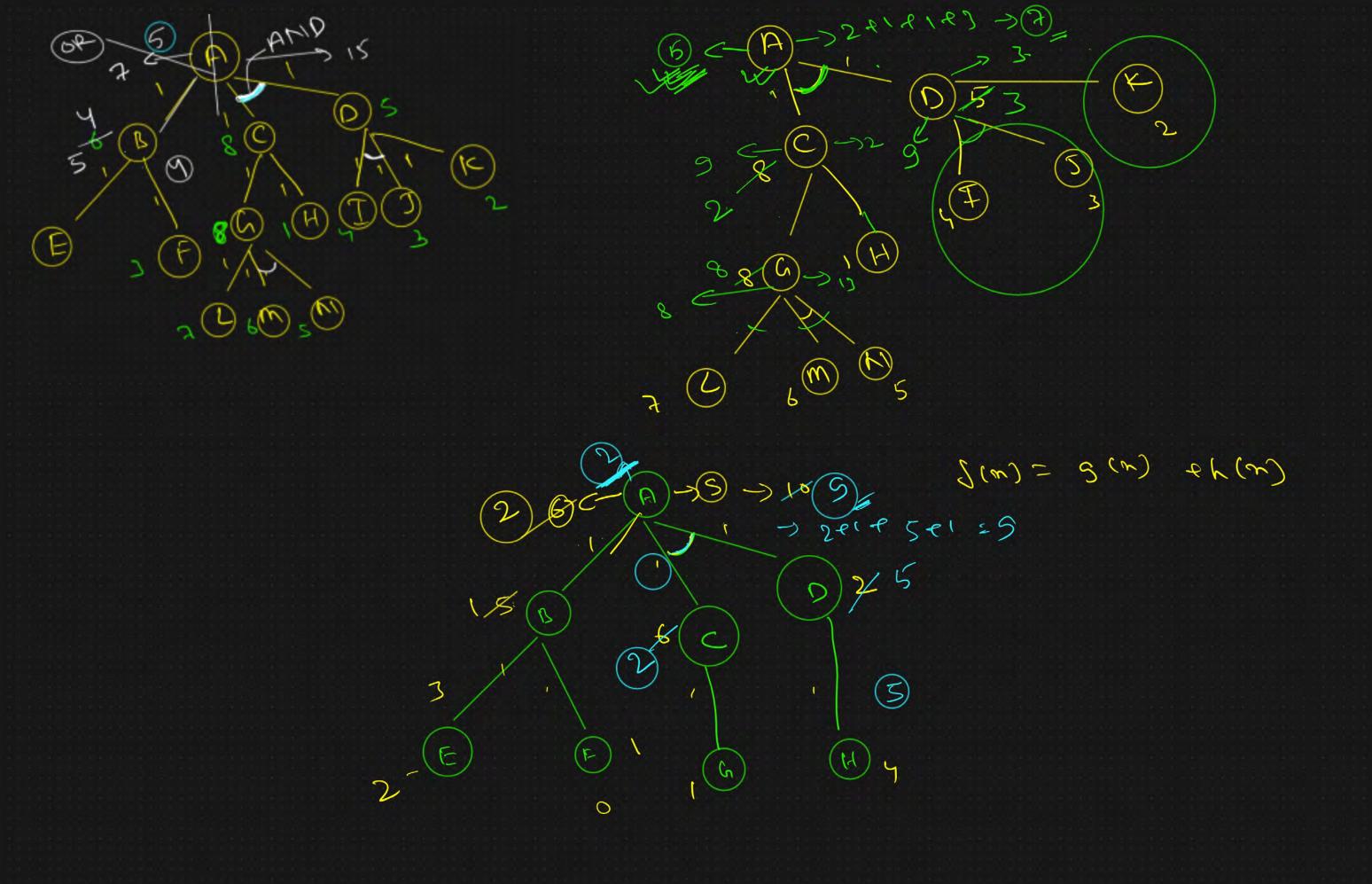
b = branching Jactor.

m = Depon & Creph / Tree)

SC = O(m) = DFS SC = 1DDFS = O(bm)  $SC = BFS = O(b^m)$ Uniform Cost Search algorithm









## 2 mins Summary



Topic

**Topic** 

Topic

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## THANK - YOU