Branch & Bound The term branch and bound refers to all state space greanch mothods in which all children of E-node are gonerated before any other live nude canbecome In BFS, in which the exploration of onew node cannot begin until the node currently boing explored. Fully explored.

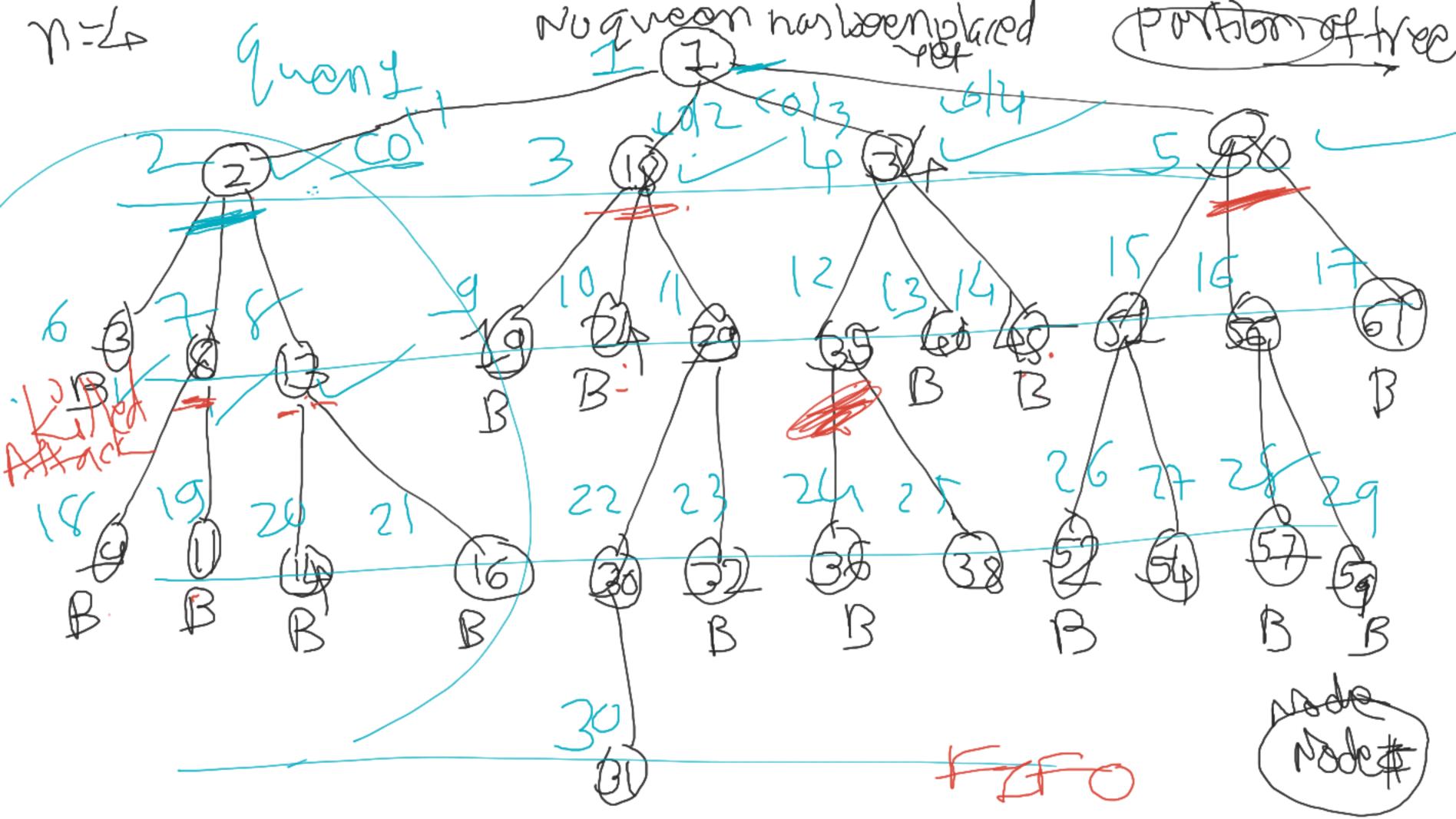
In branch and bound terminology, a BFS-like state space search will be called FIFO Sound as the (ist of live nodes 15 a finst-in-first-out list (anguar)

A D-search like sterte space sough will be called LIFO

Clast In First Out) seanch as

the litt of live mides is a last in first out With (orstack).

4-queen public n solution by B&B.
But it is not advised as lot of states
compare to bucknacking



Initially those is only one live nade, moletil This represents the case in which, no green has boon placed on the chentral This mode boronnes the E-nudo. It is expanded and its Inilaron, nodel #2,18,34,50 are gonorated those nodes represent a choppand with gnown#1 in row I and Column 1,2,3,4 respectively. The only live nodes 12,18,34&50,

If the nodes one gonorated in this ordon the the next Enadois notet? It is expanded and nodes#3,8 and 13 are generated.

No det 3 is immediately fulle during the bounding function. Nodost 8 and B me added to the quiencof live hedel. Nadoull borosol fromost Enall. Nodos#19,24,29 are gonerated.

Nadost 19 and 24 and Killeds as 4 regult af Gennar of functions. Nodating is added to the queue of live nodes. The E-node is nothe 3h.

Backtracking is a supremore soarch mothed for h queen. Bol (< florowoods & Sahni 399-400