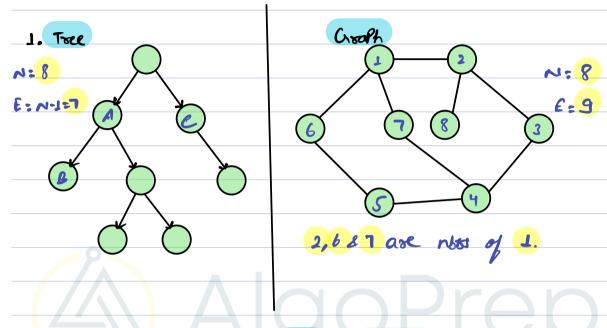


Today's Agenda
Todoy's agenda  Li Intro  Li Types of goalh  Li Storage  Li B3s (level order) +1
La Types of opath
6 Storage
G R35 (level opdex) +1
8
MADron
AIGOLICO



## Into

4 Croath: Connection of hades & edges



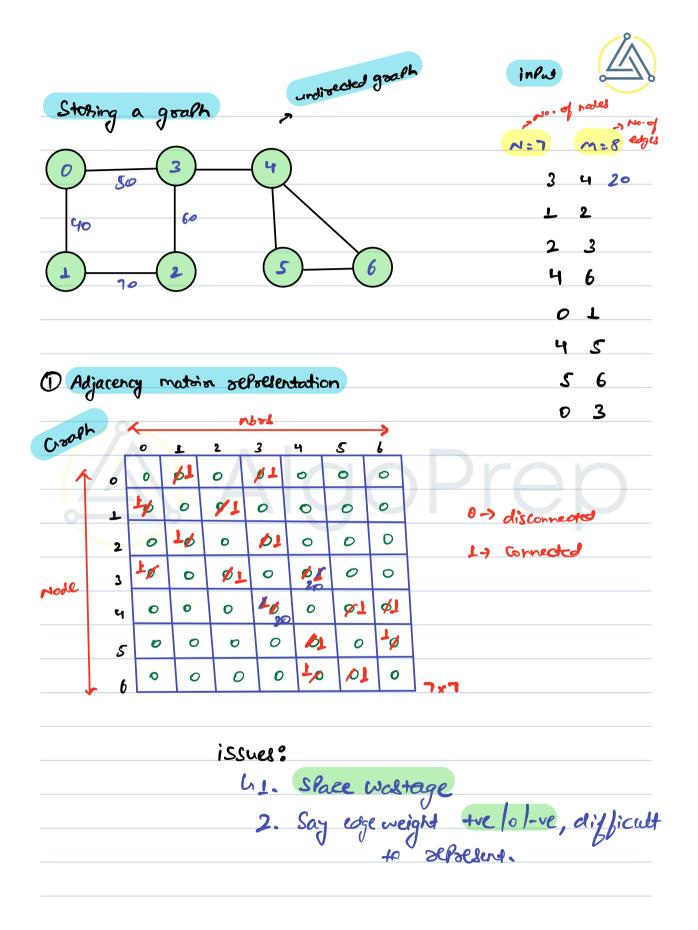
- -> main diff been toels & gooths
- 1. Modes in goodh Can have more than I Parent Inbo.
- 2. Crooth has no hierarchy or soot mode.
- 3. Croath can have cycles.
- 4. Any directional movement is allowed in graph.



Cale I: Bos	ed on types of	edges.
	B	8
A	C	A
b	firected goalh	La undisected goodh/Bidise
	binsta follower	G Josebook joiens
Cale II:	Based on weight	B C
<u> </u>	weighted gooth	Lo unweighted gooth

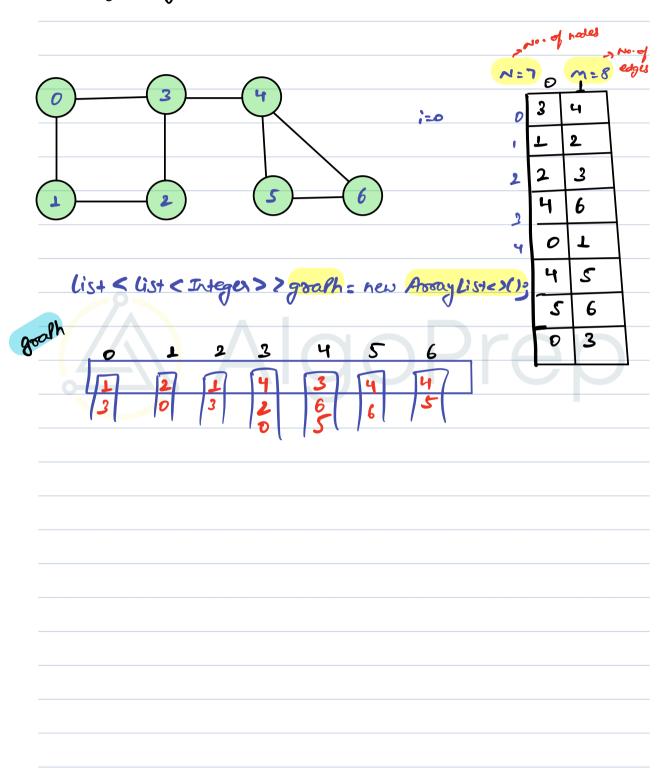








## (2) adjacency list offresentation





```
Scanner Scn = new Scanner (System.in);

ind n: Sch.newtInd();

ind m: Sch.newtInd();

ind () [] edges = new ind[m][2]

for (ind i=0; i< m; i+1) {

edges[i][0]: Sch.newtInd();

edges [i][i]: Sch.newtInd();

3

Construction (n, m, edges);
```

```
Construction (int n, int m, int[][]edge]){

(ist < list < Integer > 2 graph = new Array List < >());

for (int i=0; i< m; i++) {

int u = edges (i](o]; -> 3

int v = edges (i](o]; -> 4

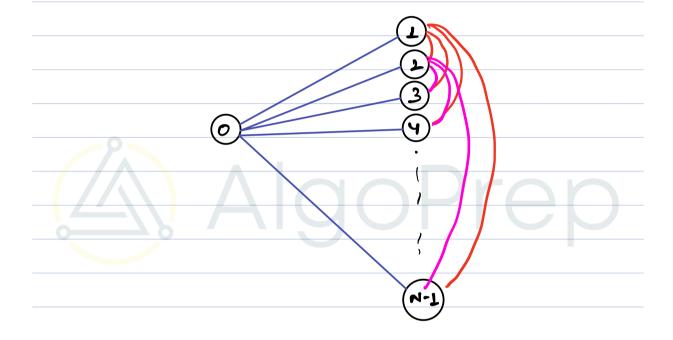
graph. get (u). add (v);

graph. get (v). add (v);
```



## Bolak till 9:45 pm

Q) Find mon number of edges Possible if N nodes are Present in goodh.



(N-1) + (N-2) + (N-3) + \_\_\_\_\_ + 1

lls N#61-0

