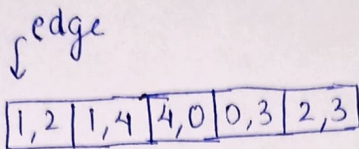
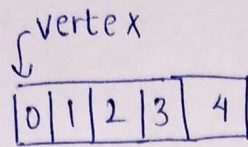
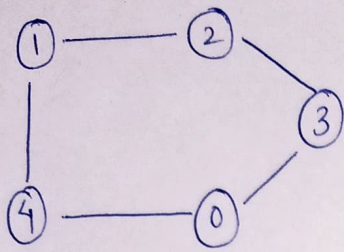


| GRAPHS |

• Implementation of Graphs.

(i) By using Edge list (Not used)

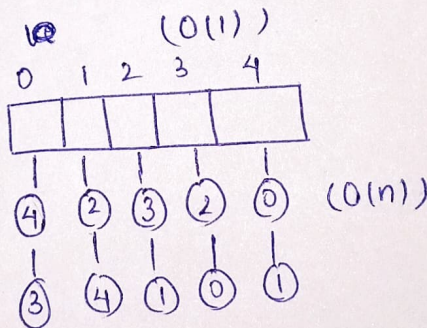
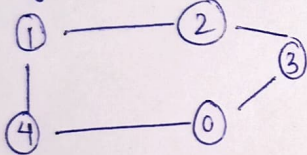


Here, if there 100 vertices & if graph is completed.

so the size of edge list will be $\frac{n(n-1)}{2} \rightarrow \frac{100(100-1)}{2} = 4950$

T.C $\rightarrow O(n^2)$
 and ~~S.C~~ S.C $\rightarrow O(n^2)$ } Worst case

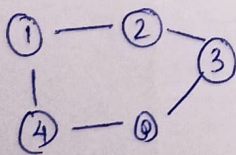
(ii) By Adjacency list



Here, T.C $\rightarrow O(n)$
 S.C $\rightarrow O(n^2)$ } Worst case

S.C $\rightarrow O(V+E)$ } Average case

(iii) By Adjacency Matrix



	0	1	2	3	4
0				T	T
1			T		T
2		T		T	
3	T		T		
4	T	T			

Here, T.C $\rightarrow O(1)$
 & S.C $\rightarrow O(n^2)$

In terms of Time $\rightarrow AM > AL$
 In terms of Space $\rightarrow AL > AM$