

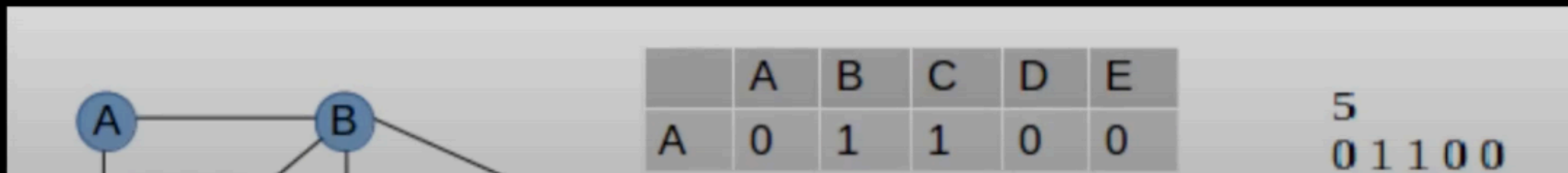
DAA Lab (Week-06)

Notes By - Deepak Uniyal

Consider the following input format in the form of adjacency matrix for graph based questions (directed/undirected/weighted/unweighted graph).

Input Format: Consider example of below given graph in Figure (a).

A boolean matrix AdjM of size $V \times V$ is defined to represent edges of the graph. Each edge of graph is represented by two vertices (start vertex u , end vertex v). That means, an edge from u to v is represented by making AdjM[u,v] and AdjM[v,u] = 1. If there is no edge between u and v then it is represented by making AdjM[u,v] = 0. Adjacency matrix representation of below given graph is shown in Figure (b). Hence edges are taken in the form of adjacency matrix from input. In case of weighted graph, an edge from u to v having weight w is represented by making AdjM[u,v] and AdjM[v,u] = w .



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Adj. list,

Adj. matrix

