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Q1.

Ans A In graph, a graph representation is a technique to store graph into the memory of Computer.

To represent a graph, we just need the set of vertices, and for each vertex the neighbors of the vertex (vertices which is directly connected to it by an edge). If it is a weighted graph, then the weight will be associated with each edge.

There are different ways to optimally represent a graph, depending on the density of it's edges, type of operations to be performed and ease of use.

1. Adjacency Matrix

2. Incidence Matrix

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8 Euler Paths and Circuits :

An "Euler path" in a graph or multigraph, is a walk through the graph which uses every edge exactly once. An "Euler Circuit" is an Euler path which starts and stops at the same vertex. our goal is to find a quick way to check wether a graph (or multigraph) has an Euler path or circuit.

1. Which of the graphs below have Euler paths? Which have Euler circuits?