



Size of matrix = $|V| \times |V|$

for undirected graph

It is a symmetric matrix

$adj[V][i] = \begin{cases} 1 & \text{if } \text{there is an edge from } i \text{ to } j \\ 0 & \text{otherwise} \end{cases}$

array

Adjacency List
problem with matrix:
→ storing redundant information
→ saves space and also faster

An array of lists where $U[i]$ are most popularly represented as:

(a) Dynamic Array

(b) Linked List

array of U

or linked U

array of U