

## 18.3 Graph representation

### 18.3.1 Undirected graph representation

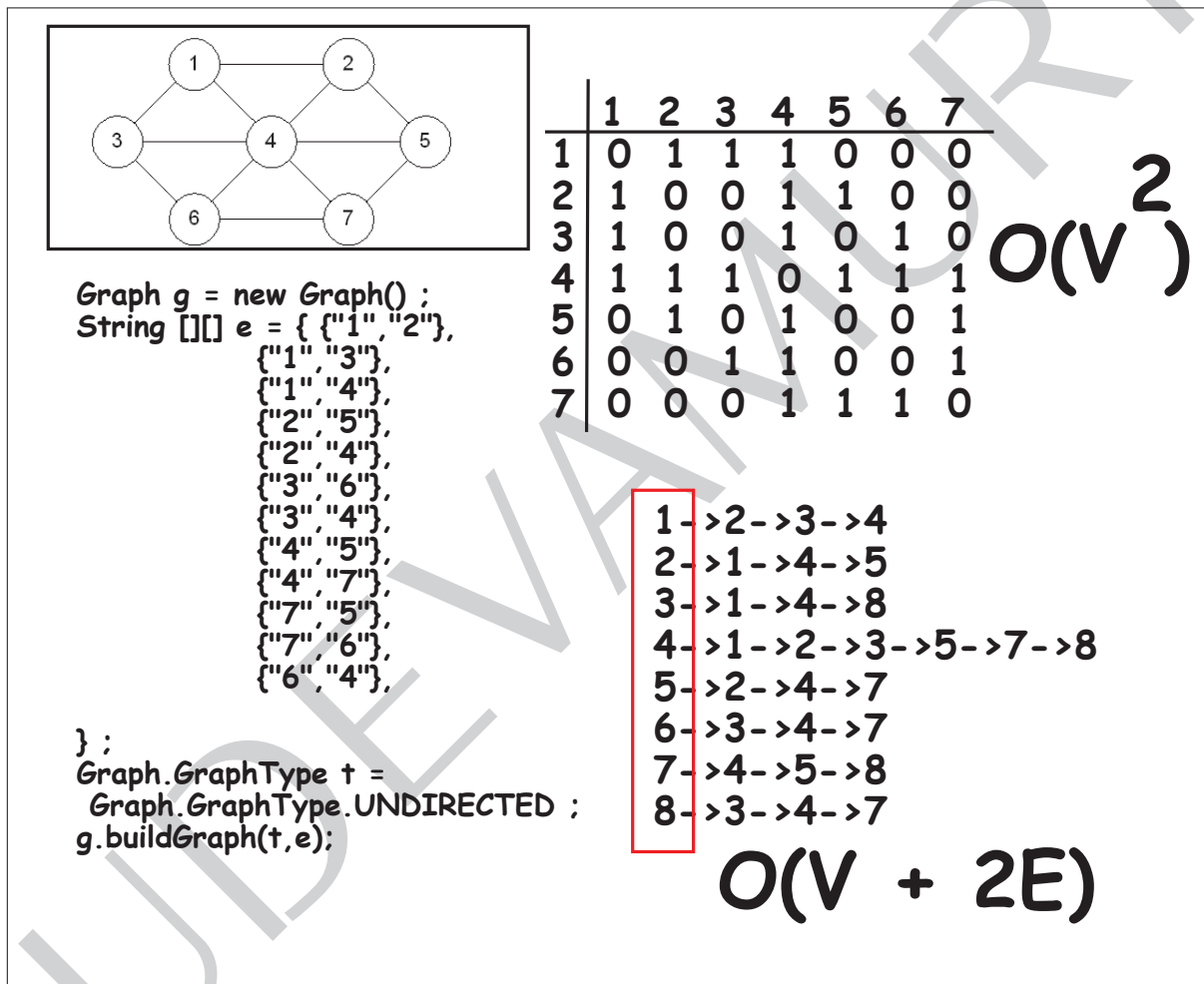


Figure 18.8: Representation of an undirected graph

### 18.3.2 Undirected weighted graph representation

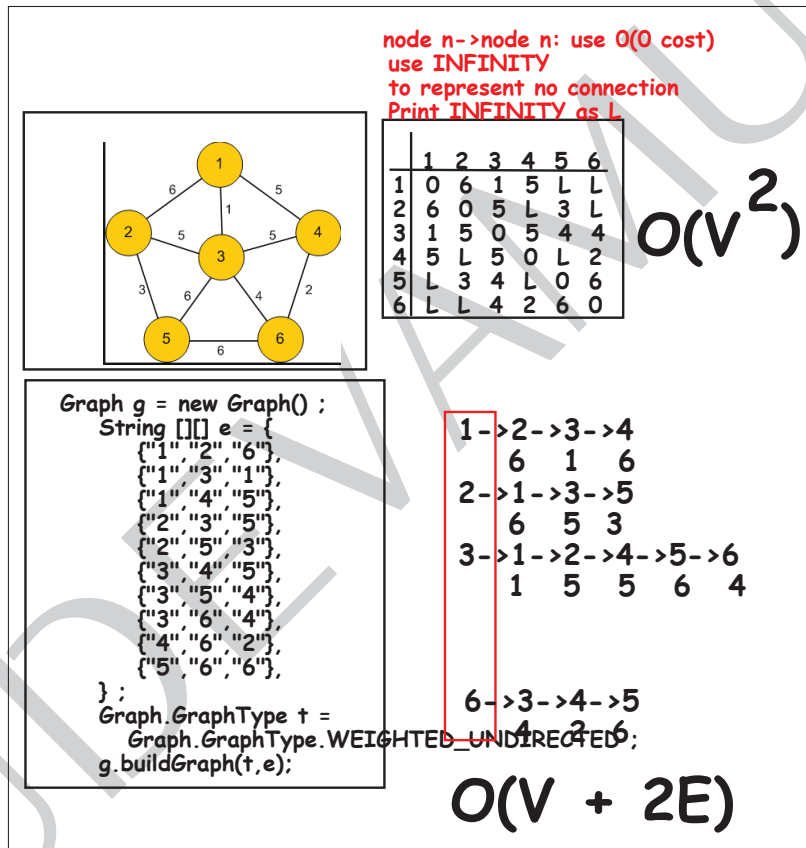


Figure 18.9: Representation of an undirected weighted graph

## 18.3. GRAPH REPRESENTATION

### 18.3.3 Directed graph representation

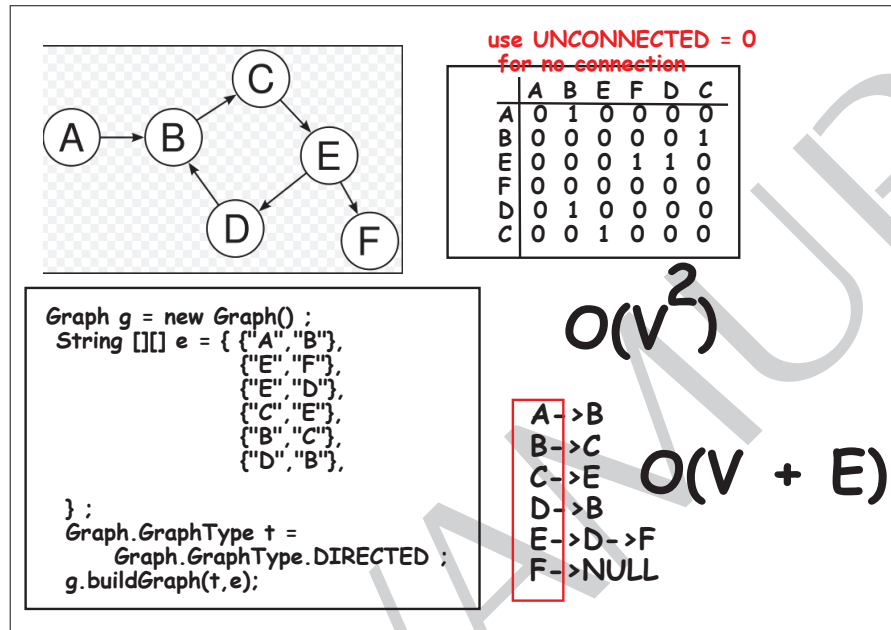


Figure 18.10: Representation of a directed graph

### 18.3.4 Directed weighted graph representation

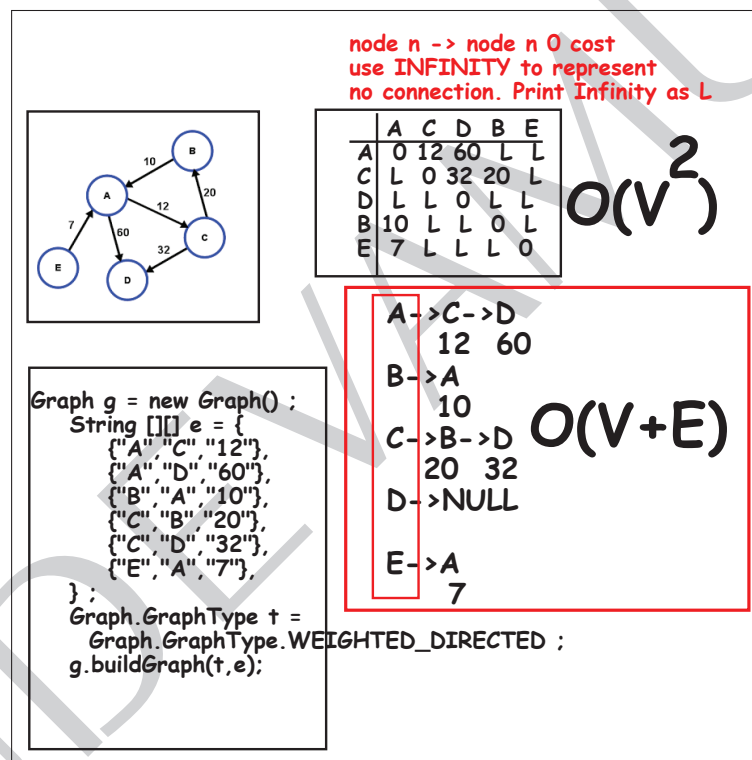


Figure 18.11: Representation of a directed weighted graph

## 18.4 Graph representation using fanins and fanouts lists

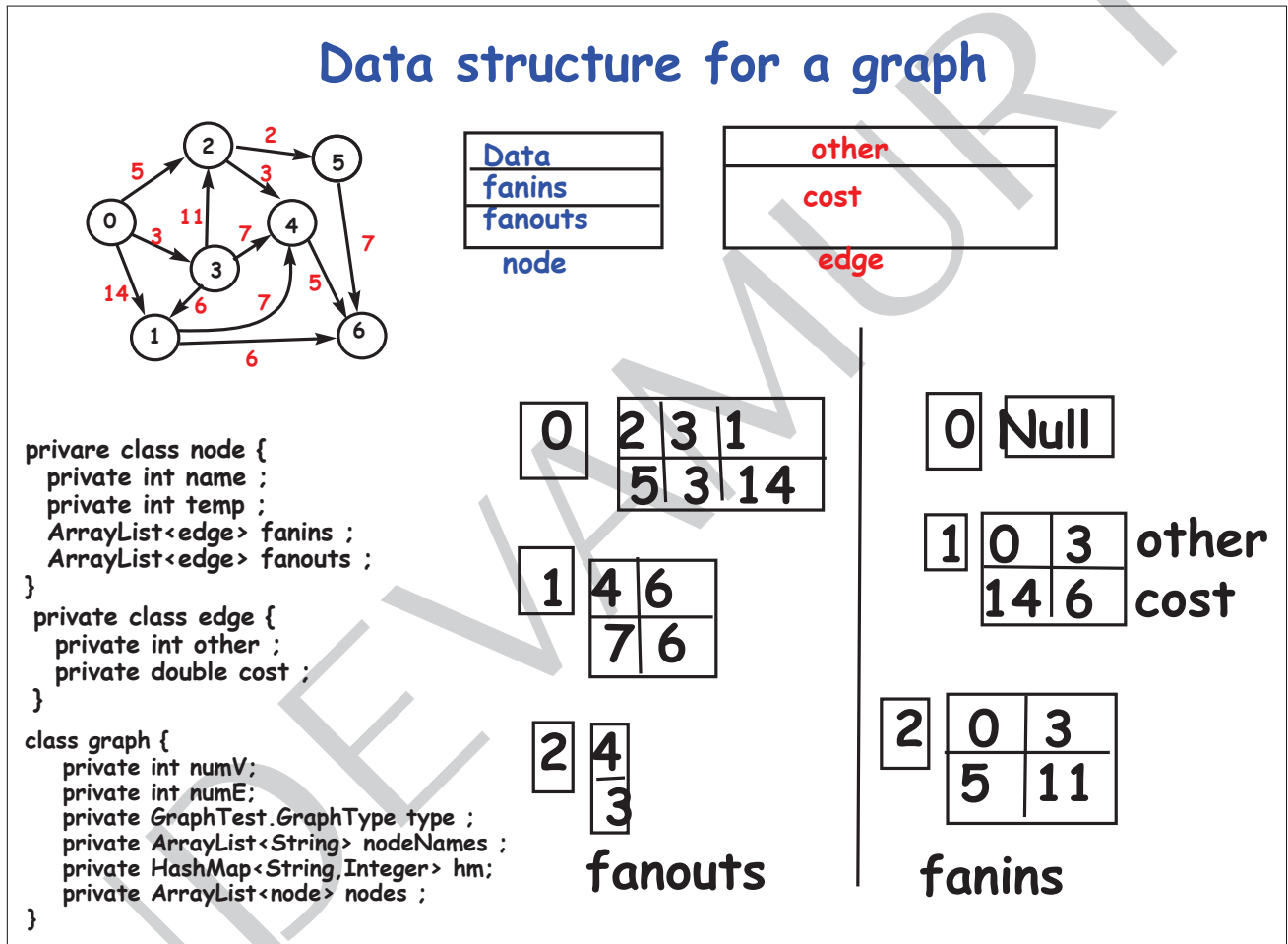


Figure 18.12: Graph data structure

### 18.4.1 Undirected graph representation

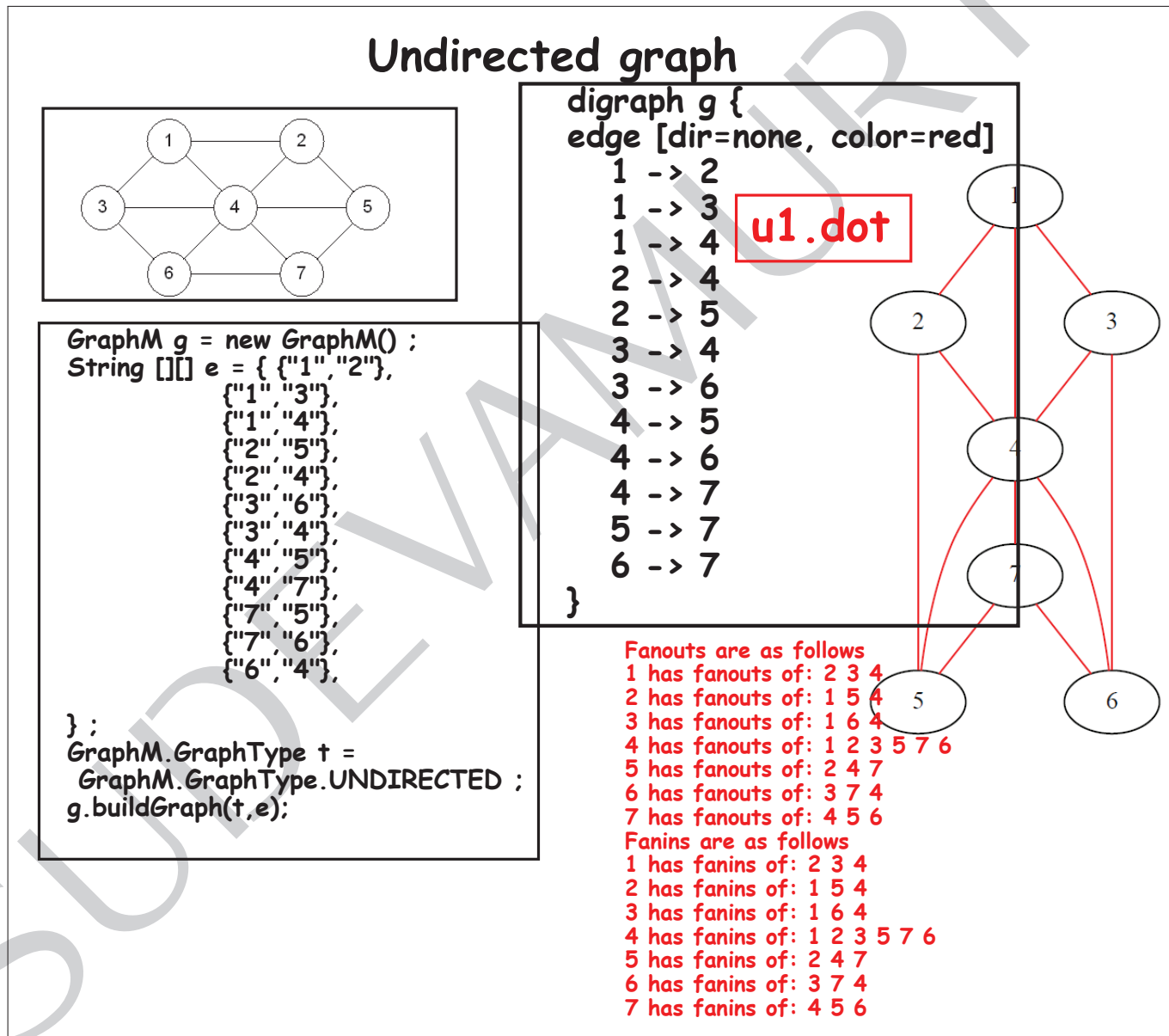


Figure 18.13: Representation of an undirected graph

## 18.4. GRAPH REPRESENTATION USING FANINS AND FANOUTS LISTS

### 18.4.2 Undirected weighted graph representation

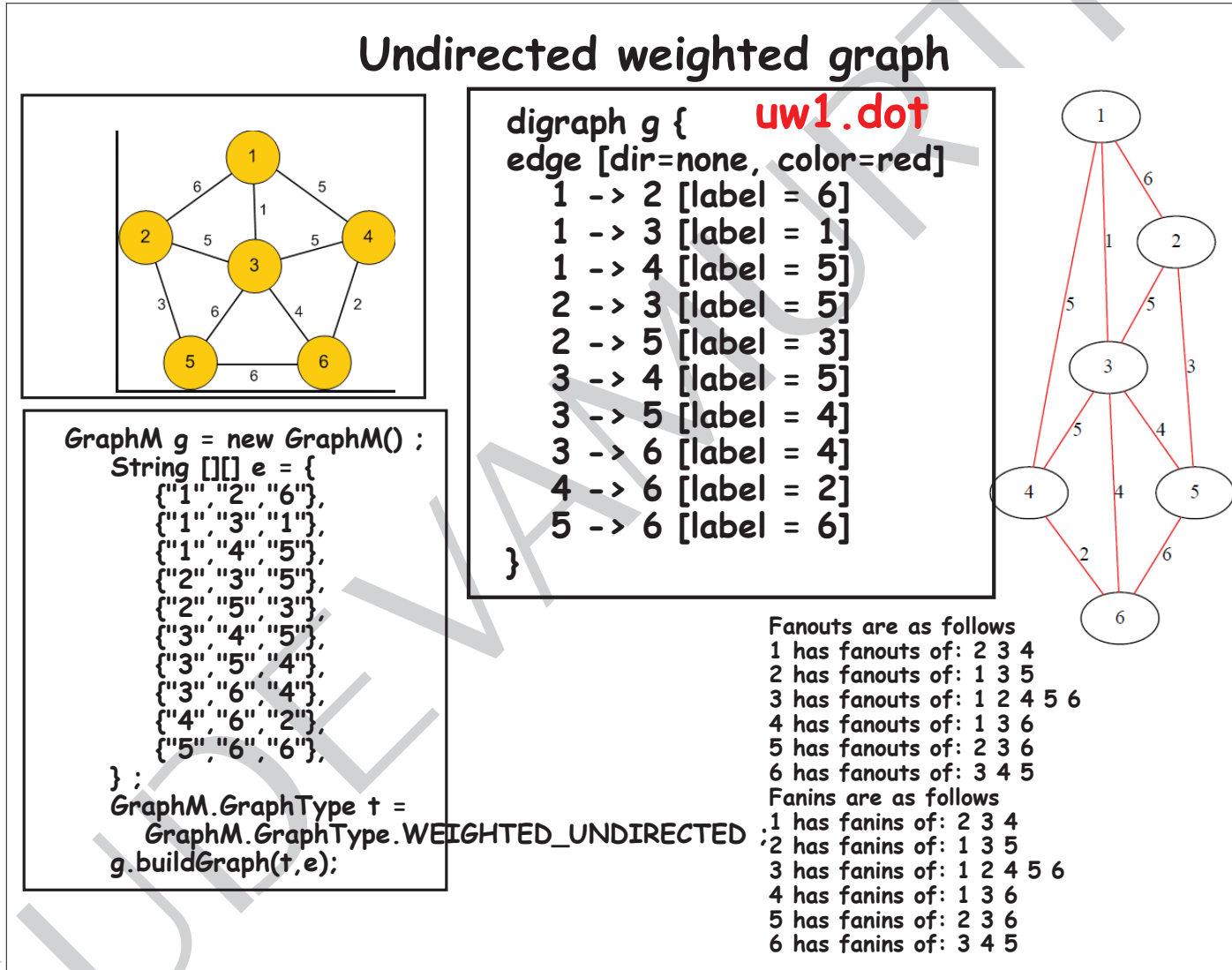


Figure 18.14: Representation of an undirected weighted graph

### 18.4.3 Directed graph representation

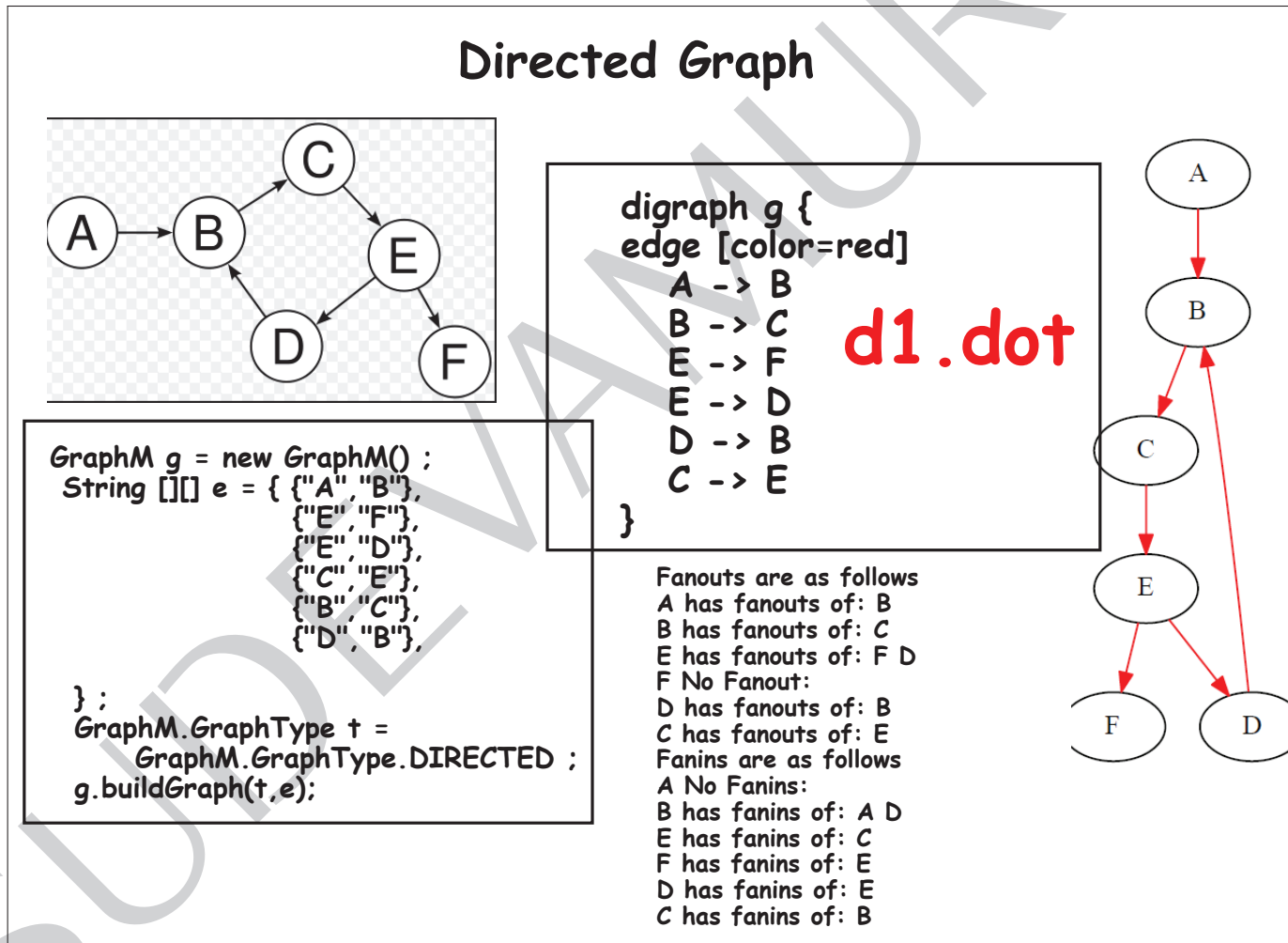


Figure 18.15: Representation of a directed graph



## 18.5. DEPTH FIRST SEARCH

### 18.4.4 Directed weighted graph representation

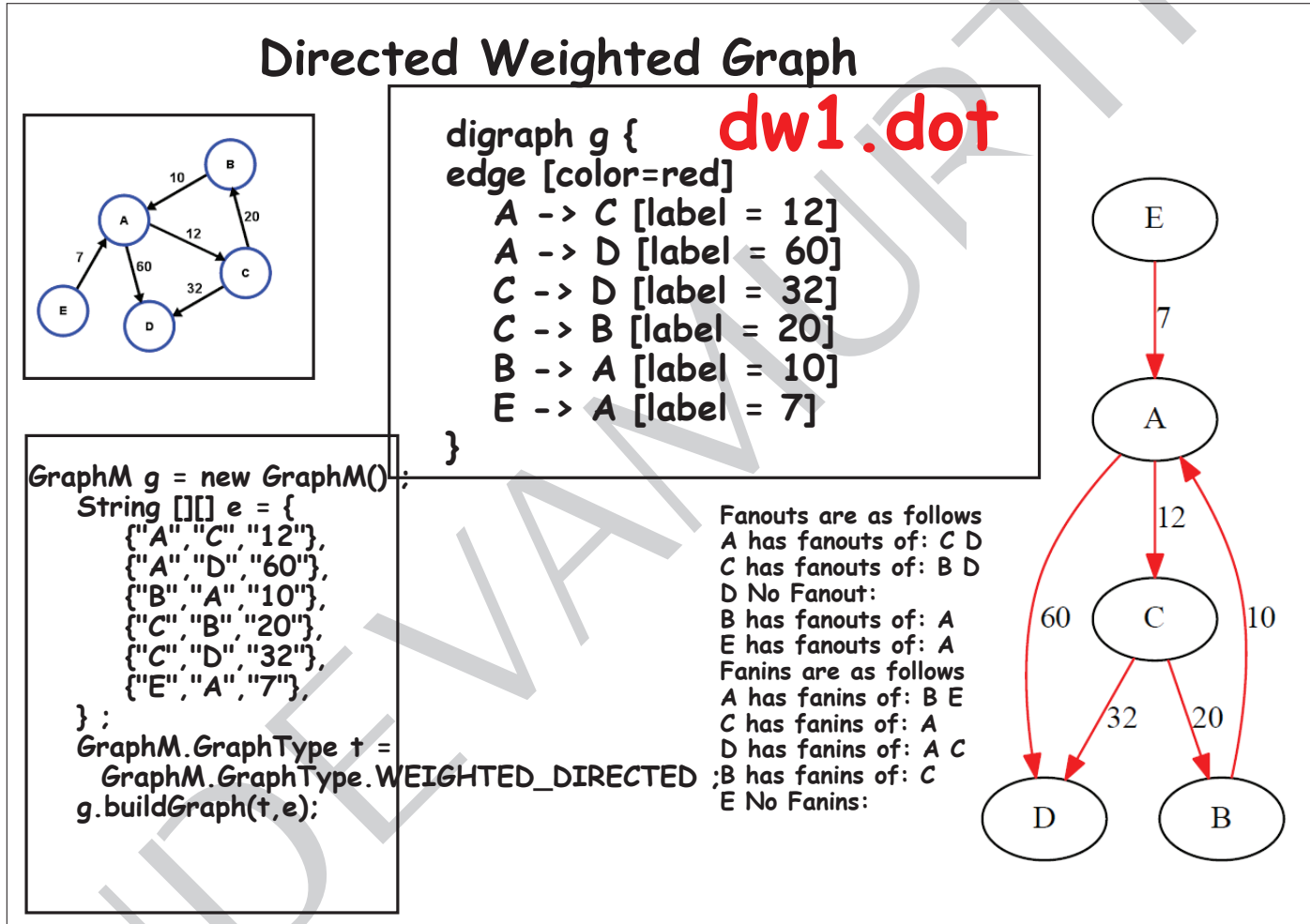


Figure 18.16: Representation of a directed weighted graph

## 18.5 Depth first search