**Title:** Graph Data Structure Representation

**Content:**

**1. Directed Graph Representation:**

The directed graph has the following edges:

Copy code

s 0 8

s 0 1

s 0 2

0 1 5

1 1 3

1 t 1

1 t 2

1 t 3

1 1 2

1 t 0.5

**2. Adjacency List Representation:**

* **Node s**: [(0, 8), (0, 1), (0, 2)]
* **Node 0**: [(1, 5)]
* **Node 1**: [(1, 3), (t, 1), (t, 2), (t, 3), (1, 2), (t, 0.5)]
* **Node t**: []

### **More descriptive analysis:**

### **Nodes**

* **s** (Start node)
* **0** (Intermediate node)
* **1** (Intermediate node)
* **t** (End node)

### **Edges**

* s -> 0 with weight 8
* s -> 1 with weight 1
* s -> 2 with weight 2
* 0 -> 1 with weight 5
* 1 -> 1 with weight 3
* 1 -> t with weight 1
* 1 -> t with weight 2
* 1 -> t with weight 3
* 1 -> 1 with weight 2
* 1 -> t with weight 0.5

### **Graph Content**

* **Nodes**: s, 0, 1, t
* **Edges**: Various edges with associated weights as listed above.

