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Tutorial 8



Adjacency matrix

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A | B | C | D | E | F | G | H | I |
| A | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| B | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| C | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| D | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| F | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| G | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| H | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| I | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Adjacency List

|  |  |
| --- | --- |
| Node | List |
| A | C, D |
| B | D |
| C | E, F |
| D | E |
| E | G |
| F | H |
| G | H |
| H | I |
| I |  |



int[][] adjacencyMatrix = {  
{0, 0, 1, 1, 0, 0, 0, 0, 0}, //A  
{0, 0, 0, 1, 0, 0, 0, 0, 0}, //B  
{0, 0, 0, 0, 1, 1, 0, 0, 0}, //C  
{0, 0, 0, 0, 1, 0, 0, 0, 0}, //D  
{0, 0, 0, 0, 0, 0, 1, 0, 0}, //E  
{0, 0, 0, 0, 0, 0, 0, 1, 0}, //F  
{0, 0, 0, 0, 0, 0, 0, 1, 0}, //G  
{0, 0, 0, 0, 0, 0, 0, 0, 1}, //H  
{0, 0, 0, 0, 0, 0, 0, 0, 0} //I  
};