|  |  |  |  |
| --- | --- | --- | --- |
| **Adjacency list** | **Adjacency Matrix** |  | **name** |
|  | Calendar  Description automatically generated |  | image |
| O(|V|+|E|) | O(|V|2). |  | Sorage |
| Directed | Directed and undireced |  | Direction |
| O(|V|) . | O(1) |  | Querying time |

How work DFS and BFS

|  |  |  |
| --- | --- | --- |
| DFS,(Depth First Search) | BFS(BreadthFirst Search) | name |
| uses Queue | uses Stack | data structure. |
| BFS requires more memory. | DFS requires less memory. | Memory |
|  |  |  |