**ÁRBOLES**

|  |  |  |  |
| --- | --- | --- | --- |
|  | BST | BT perfectamente balanceado | AVL |
| Inserción | O(h) gral | O(log2n) | O(log2n) |
| Borrado | O(h) gral | O(log2n) | O(log2n) |
| Búsqueda | O(h) gral | O(log2n) | O(log2n) |

**GRAFOS**

|  |  |  |
| --- | --- | --- |
|  | Matriz de adyacencia | Lista (Arraylist<Arraylist>) |
| Indegree | O(n) | O(n²) |
| Outdegree con idx | O(n) | O(1) |
| Outdegree sin idx | O(n) | O(n) |
| Inserción vértice | O(n) | O(1) |
| Borrado vértice | O(n) | O(n) |
| Inserción arista | O(n) | O(n) |
| Borrado arista | O(n) | O(n) |

**ARRAY SORTING**

|  |  |
| --- | --- |
| InsertionSort | O(n²) |
| MergeSort | O(nlog(n)) |
| QuickSort | O(n²) |
| QuickSort  (con búsqueda de pivote) | O(nlog(n)) |
| BubbleSort | O(n²) |

**Algoritmos de texto**

|  |  |  |
| --- | --- | --- |
|  | **Temporal** | **Espacial** |
| Soundex | O(n) | O(1) |
| Levenshtein | O(n\*m) | O(n\*m) |
| Lev Alternative | O(n\*m) | O(n) |
| Qgrams | O(n+m) | O(n+m+Q) |
| KMP | O(m+n) | O(m) |
| Fuerza bruta | O(n\*m) | O(1) |

**Índices**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Búsqueda | Inserción | Borrado |
| Arreglo desordenado | O(n) | O(1) | O(n) |
| Arreglo ordenado | O(logn) | O(n) | O(n) |
| Hashing | O(n) (ideal O(1)) | O(n) | O(n) |
| Lista simplemente encadenada ordenada | O(n) | O(n) | O(n) |