BigO Notation:

|  |  |  |
| --- | --- | --- |
| Notation | Name | Meaning |
| O(1) | Constant | Always X number of steps regardless |
| O() | Logarithmic | Pass through a logarithmic function of times |
| O(n) | Linear | Pass through n number of times |
| O() | Quadratic | Pass through n\*n amount of times |

**Sort:**

**Bubble Sort:**

Compare one by one until swap = !true

BigO:

|  |  |  |
| --- | --- | --- |
| Best Case | Worse Case | Average Case |
| O(n) | O() | O() |

We only care about the order

completely reversed N\*N time

Each element only 1 time