Efficiency: time+ storage

Time

How many steps it does

O(n)---how big ( o stands for order.)

O(n\*\*2) for bubble sort (though it should be ((n-1)\*\*2)/2 times, but the other parts doesn’t matter)

O(n) linear search

O(log2100) binary search

Exponential order is bad because it’s only good for small numbers like O(2n)

Polynomial order is better O(n2)

Sort: quicksort

Heapsort

Merge sort:

Storage

1. 1 byte=8 bitsn bb
2. Mb=megabit=1,000,000 bits MB=megabyte=8,000,000 bits

RAM=random access memory: working memory

ROM= read only memory: long-term storage ---- hard disk drive (HDD), solid state drive (SSD)