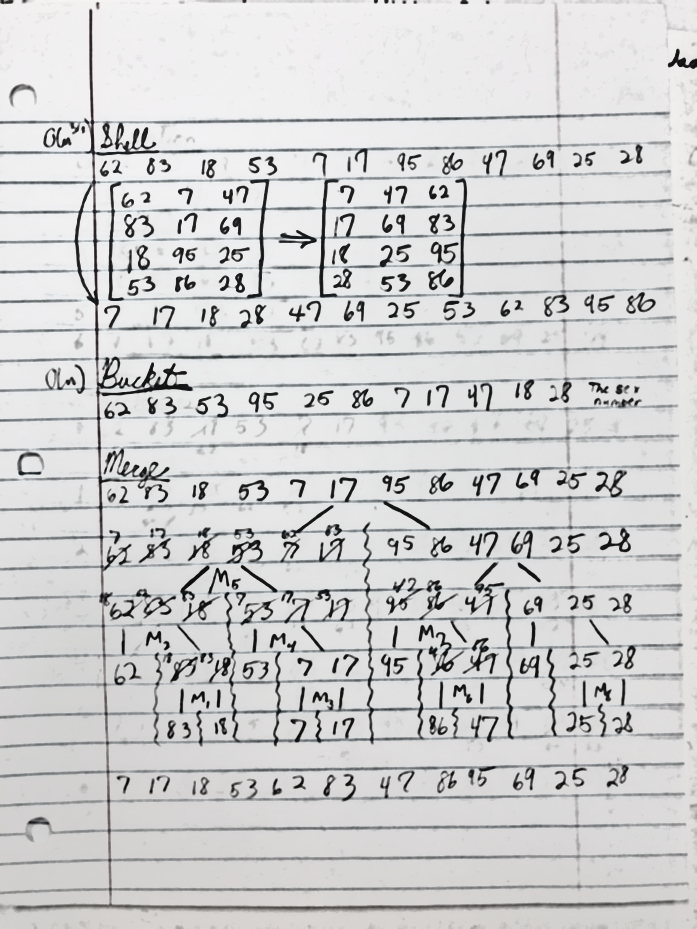
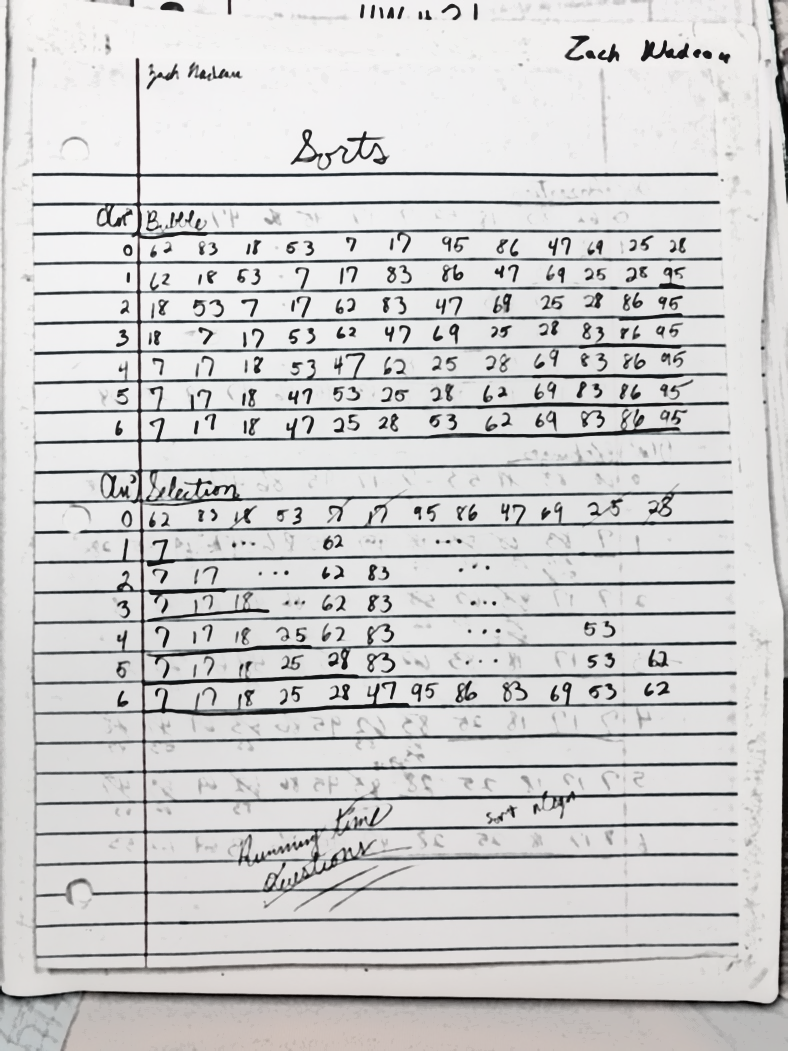
**CS 2315: Exam 4 Review**

*Sorts & Searches*

|  |  |  |
| --- | --- | --- |
| Name | Big-O | Best Time |
| Bubble Sort | N2 | N |
| Selection Sort | N2 | - |
| Exchange Sort | N2 | - |
| Insertion Sort | N2 | N |
| Shell Sort | N3/2 | - |
| Merge Sort | NlogN | - |
| Bucket Sort | N | - |
| Linear Search | N | C |
| Binary Search | logN | C |

*Vector/miniVector*

|  |  |
| --- | --- |
| Name | Big-O |
| \*operator= | N |
| \*operator[] | C |
| at | C |
| front/\*back | C |
| data | C |
| iterators | C |
| \*empty | C |
| \*size | C |
| reserve | \*\*N |
| \*capacity | C |
| shrink\_to\_fit | N |
| clear | C |
| \*insert | N |
| \*erase | N |
| \*push\_back | C |
| \*pop\_back | C |
| resize | N |
| comparisons | N |

\*Contained in miniVector

\*\*Amortized Constant

*Matrix*

|  |  |
| --- | --- |
| Name | Big-O |
| operator[] | C |
| rows/cols | C |
| resize | N2 |