CS316 Project 4 Running time Report, April 2015

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| Name of the image processed: Buchtel Hall | | |
|  |  |  |
| Sorting algorithm | Window size | Recorded Running time |
| Insertion sort | 5 |  |
| Insertion sort | 11 |  |
| Insertion sort | 23 |  |
| Insertion sort | 47 |  |
| Insertion sort | 97 |  |
|  |  |  |
| Sorting algorithm | Window size | Recorded Running time |
| Quicksort sort | 5 |  |
| Quicksort sort | 11 |  |
| Quicksort sort | 23 |  |
| Quicksort sort | 47 |  |
| Quicksort sort | 97 |  |
|  |  |  |
| Sorting algorithm (list the name) | Window size | Recorded Running time |
|  | 5 |  |
|  | 11 |  |
|  | 23 |  |
|  | 47 |  |
|  | 97 |  |
|  |  |  |
|  |  |  |
|  |  |  |

The asymptotic running time of the three algorithms:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Time complexity | | |
|  | Best case | Average case | Worst case |
| Insertion sort |  |  |  |
| Quicksort sort |  |  |  |
| Your alg (name it) |  |  |  |
|  |  |  |  |

Did your implementation meet your expectation? Why?