

CSE 204

DATA STRUCTURE AND ALGORITHMS – I

Offline 1

Linear Search & Binary Search Runtime Comparison

Submitted By

Md. Zarif Ul Alam

1705010

Submitted to

Prof. Dr. Md Abul Kashem Mia

Mr. Md. Saiful Islam

Date of Submission

15-05-2019

MACHINE CONFIGURATION:

- 1. Processor:** Intel(R) Core(TM) i7-8550U CPU @ 1.80GHz, 2GHz
- 2. Installed RAM:** 8.00 GB
- 3. OS:** Windows 10 Home Single Language
- 4. System Type:** x64-based PC

Data Set

| Array Size | Binary Search Time (ns) | Linear Search Time (ns) |
|-------------------|--------------------------------|--------------------------------|
| 10 | 129 | 177 |
| 100 | 143 | 456 |
| 200 | 150 | 896 |
| 500 | 159 | 1580 |
| 1000 | 180 | 3277 |
| 2000 | 212 | 5133 |
| 5000 | 255 | 12747 |
| 10000 | 282 | 26171 |

Comparison using Graph

