On my honor, I pledge that I have neither received nor provided improper assistance in the completion of this assignment.

Signed: \_\_\_\_\_\_youyoungkim\_\_\_\_\_\_\_ Section: \_\_\_03\_\_\_\_ Student Number: \_\_\_\_\_\_\_21800147\_\_\_\_\_\_\_

**“Selection Sort (O ())”**

|  |  |
| --- | --- |
| n | sort(sec) |
| 10000 | 0.187000 |
| 20000 | 0.727500 |

* “b” 구하기
  + n1 = 10,000, t1 = 0.187000
  + n2 = 20,000, t2 = 0.727500
* “Million”
  + n1 = 10,000, t1 = 0.187000
  + n2 = 1,000,000, t2 =?
* “Billion”
  + n1 = 10,000, t1 = 0.187000
  + n2 = 1,000,000,000, t2 =?

**“Quick Sort (O (n log n))”**

|  |  |
| --- | --- |
| n | sort(sec) |
| 10000 | 0.002953 |
| 20000 | 0.006575 |

* “b” 구하기
  + n1 = 10,000, t1 = 0.002953
  + n2 = 20,000, t2 = 0.006575
* “Million”
  + n1 = 10,000, t1 = 0.002953
  + n2 = 1,000,000, t2 =?
* “Billion”
  + n1 = 10,000, t1 = 0.002953
  + n2 = 1,000,000,000, t2 =?

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Selection Sort O() | | | Quick Sort O(N log N) | | |
| N | 10,000 | Million | Billion | 10,000 | Million | Billion |
| My computer | 0.187000(sec) | 25.92(min) | 37.41(years) | 0.002953(sec) | 0.59(sec) | 27.68(min) |

텍스트, 지도이(가) 표시된 사진

자동 생성된 설명