Data Structure HW7 Report

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(1)執行環境:

Cpu:Intel i5-8250U @1.60GHz Up to 1.80GHz

Ram:4.00GB (3.89可用)

OS:Windows 10 專業版 (版本:1903)

Compiler: gcc (MinGW.org GCC Build-2) 9.2.0

(2)測試結果:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 資料量 | Selection | Merge | Radix | C qsort() | C++ sort() |
| 100 | 0 | 0 | 0 | 0 | 0.0001 |
| 500 | 0.0007 | 0 | 0 | 0.0001 | 0.0001 |
| 1000 | 0.0028 | 0 | 0 | 0.0001 | 0.0004 |
| 5000 | 0.0582 | 0.0006 | 0.0006 | 0.0007 | 0.0012 |
| 10000 | 0.2448 | 0.0016 | 0.0014 | 0.0012 | 0.0028 |
| 50000 | 6.2799 | 0.0082 | 0.0076 | 0.007 | 0.0152 |
| 100000 | 24.911 | 0.0157 | 0.0154 | 0.0122 | 0.0317 |
| 500000 | TLE | Out of memory | 0.0725 | 0.0625 | 0.1629 |

\*時間以秒(sec)為單位，TLE為>5 min