# HW7

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Selection | Heap | Quick | Cstdlib | C++ STL |
| 100 | 0.0001s | 0.0000s | 0.0000s | 0.0000s | 0.0000s |
| 500 | 0.0004s | 0.0001s | 0.0000s | 0.0000s | 0.0000s |
| 1000 | 0.001s | 0.0001s | 0.0000s | 0.0000s | 0.0001s |
| 5000 | 0.0213s | 0.0009s | 0.0001s | 0.0002s | 0.0005s |
| 10000 | 0.0836s | 0.0017s | 0.0002s | 0.0004s | 0.001s |
| 50000 | 2.0798s | 0.0094s | 0.0013s | 0.0019s | 0.003s |
| 100000 | 8.2409s | 0.0241s | 0.0032s | 0.0049s | 0.0061s |
| 500000 | 196.8104s | 0.119s | 0.0179s | 0.0209s | 0.0318s |

TLE > 5mins

CPU: Intel® Core™ i9-13900HX 5.4GHz

RAM:32GB(4800MT/s)

System: Window 11

Compiler: MinGW-W64 x86\_64-posix-seh, built by Brecht Sanders 11.2.0