**2019 NCTU OS HW3 report**

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| Question | Answer |
| Q1.  Briefly describe your design for the sort and merge function and the thread management in the Multi-thread program. | 我用bubble sort來做brute-force sort, 每個thread做1/4個array, merge sort的部份是先做1/2, 再全部做一次。 而thread management則用exit離開建立的thread, 再用join同步。 |
| Q2.  Show your thread information screenshot while running the Single-thread/Multi-thread program. | Single-thread  multi-thread |
| Q3.  Show the time speedup between Single-thread and Multi-thread. | Single-thread  multi-thread |
| Q4.  What did you learn from doing hw3? | 如何使用pthread以及平行處理常會遇到的問題(害我debug的時候想說怎麼那麼離譜...) |