Programming Assignment Report

NTUEE

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1. Four sorter:

Test	Problem	Insertion Sort		Merge Sort		Heap Sort		Quick Sort	
case	size	Time	Memory	Time	Memory	Time	Memory	Time	Memory
		(sec)	(MB)	(sec)	(MB)	(sec)	(MB)	(sec)	(MB)
Case1	1362	0.081163	0.668	0.001945	0.700	0.010737	0.684	0.007984	0.74
Case2	9216	3.15702	1.8	0.064238	2.4	0.068862	1.9	0.056095	1.8
Case3	82360	258.103	11.4	0.561649	15.2	0.581692	11.4	0.499442	11.3
Case4	185462	1306.01	18.5	1.37152	30.8	1.2712	18.9	1.12058	18.9

2. Plot: CPU vs Problem size & Memory vs Problem size

Time vs size 四張圖的級距差太多,故分開畫比較看出差異。









