

## Algorithms

### Programming Assignment #1

#### Sorting

1. Compare the running time of three versions of different input sizes.

Input size	IS		MS		HS	
	CPU time (ms)	Memory (KB)	CPU time (ms)	Memory (KB)	CPU time (ms)	Memory (KB)
4000.bc	0	11872	0	11872	0	11872
4000.wc	0	11872	0	11872	0	11872
4000.ac	0	11872	0	11872	0	11872
16000.bc	0	12016	0	12016	0	12016
16000.wc	180	12016	0	12016	0	12016
16000.ac	90	12016	0	12016	0	12016
32000.bc	0	12016	0	12020	0	12016
32000.wc	700	12016	0	12020	0	12016
32000.ac	350	12016	0	12020	0	12016
1000000.bc	0	18036	110	19776	160	18036
1000000.wc	723370	18036	110	19776	160	18036
1000000.ac	407640	18036	170	19776	250	18036

2. Draw figures to show the growth of running time as a function of input size.

