Recitation 5

Loop Invariants and Prelim Review

























Quicksort of b[0n-1]	Prelim Re
<pre>/** Sort b[hk] */ void QS(int[] b, int h, int k) { if (b[hk] size < 2) return; j= partition(b, h, k); // b[hj-1] <= b[j] <= b[j] <= b[j+1k] QS(h, j-1); </pre>	Someone proved that the average or expected time for quicksort is n log n
QS(J+1, k) }	

	Prelim Review	
Quicksort of b[0n-1]		
partition(b, h, k) takes time proportional to size of b[hk]		
Worst-case time: partition makes one side empty		
time n to partition time n-1 to partition time n-2 to partition		
depth: proportional to n therefore: time n^2		







