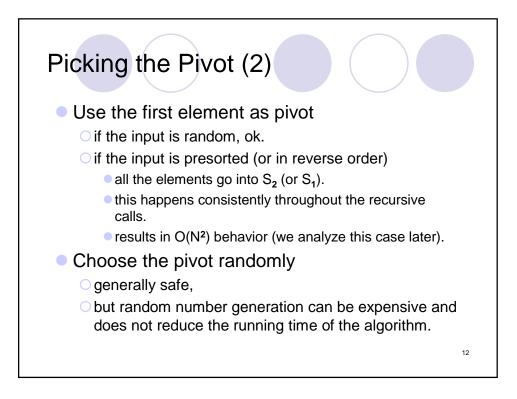
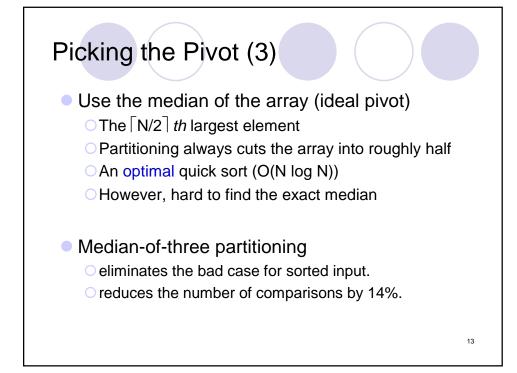


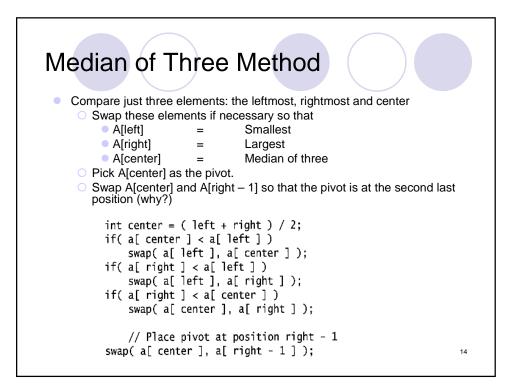
## Picking the Pivot

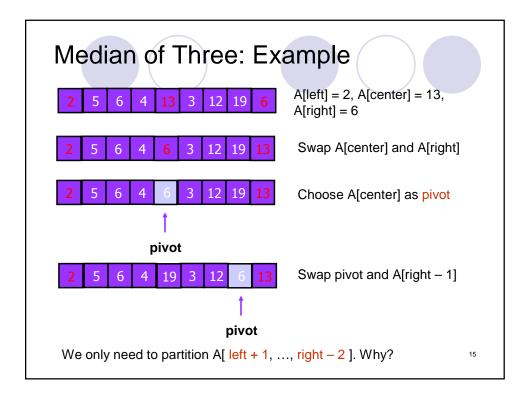
There are several ways to pick a pivot.

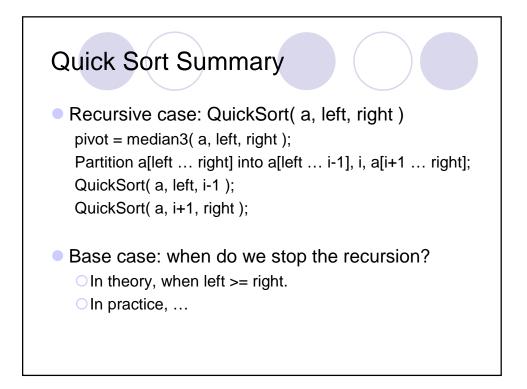
 Objective: Choose a pivot so that we will get 2 partitions of (almost) equal size.

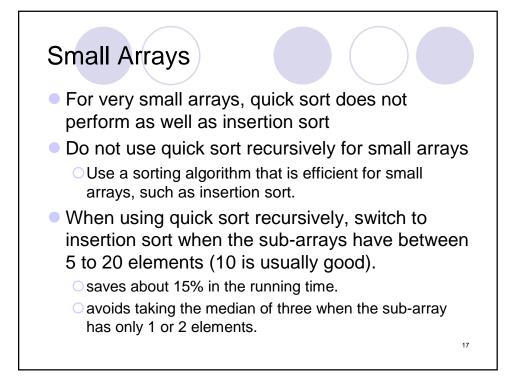












( left + 10 <= right )	
Comparable pivot = median3( a, left, right );	Choose pivot
<pre>int i = left, j = right - 1; for(;;) { while( a[ ++i ] &lt; pivot ) { } while( pivot &lt; a[j ] ) { } if( i &lt; j ) swap( a[ i ], a[ j ] ); else break; } swap( a[ i ], a[ right - 1 ] ); // Restore pivot</pre>	Partitioning
<pre>quicksort( a, left, i - 1 ); // Sort small eleme quicksort( a, i + 1, right ); // Sort large eleme</pre>	ents Recursion

