CS2040S Exam Tips

Q) Sorting Algo Allocation (by invariant) [BSQIM]  
  
- Clear easiest to hardest  
- BubbleSort (last j items (final position) sorted)  
- SelectionSort (first j items (final position) sorted – same as sorted array)  
- QuickSort (pivot is correctly (final position) sorted and everything before that is below & after that is above) //draw mid line to find pivot  
- InsertionSort (first j items sorted)  
- MergeSort (first 1/(2^k)) items sorted (k = 0/1/2…))

Q) Rotatiions  
- use pencil to mark out base triangles to easily visualize rotations