

DECISION 1

Revision Notes

1. Sorting (assuming sorting into ascending order)

a) BUBBLE SORT

Make sure you show comparisons clearly and label each pass

First Pass	Second Pass	Third Pass	Fourth Pass
10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90
10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90
10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90
10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90

Step 1

Compare first two numbers. If the smaller number is on the right, swap the two numbers – write the remainder of the list.

Step 2

Move one step forwards in the list and compare the two numbers. If the smaller is on the right swap the two numbers – write the remainder of the list.

Step 3

Repeat Step 2 until the two numbers on the extreme right have been compared, this completes the FIRST PASS.

Step 4

REPEAT FIRST PASS repeat Step 1 – 2 but we need to compare last 2 in the list (first 9 are already sorted).

Step 5

REPEAT FIRST PASS repeat Step 1 – 2 but we need to compare last 3 placed at last 2 already sorted... etc

STOP when a complete pass produces no swaps – show that

b) SHUTTLE SORT

Make sure you show comparisons clearly and label each pass

First Pass	Second Pass	Third Pass	Fourth Pass
10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90
10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90
10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90
10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90	10 15 20 30 40 50 60 70 80 90

SHUTTLE SORT

First Pass

Compare first two numbers – swap if necessary – rewrite the remainder of the list.

Second Pass

Compare second and third number – swap if necessary – rewrite the remainder of the list. Now compare the first two numbers – swap if necessary and re-write the list... If not swap needed start the next pass.

Third Pass

The pass which starts by comparing the second to last and last numbers. Make sure you complete the pass indicating comparisons made.

BUBBLE AND SHUTTLE

For a list of n numbers the list will definitely be sorted after the $(n-1)^{th}$ pass.

Maximum number of comparisons/swaps = $\frac{n(n-1)}{2}$

Shuttle can be more efficient than bubble as 'pass' stops when no swaps needed.

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ML Yell



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