

Sorting

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Sorting

1. Compares pair of items and swaps them if they are in the wrong order. Each pair in the list is checked. 1 point

- ☐ Selection Sort
- ☒ Insertion Sort
- ☐ Bubble Sort
- ☐ Radix sort

Clear selection

2. Which is non-comparative sorting algorithm 1 point

- ☐ Selection Sort
- ☐ Insertion Sort
- ☐ Bubble Sort
- ☒ Radix sort

Clear selection

3. Sort the following list using the Selection Sort Algorithm

1 point

H,V,A,T,L,N,K

What is the output of the algorithm of third pass

- ☐ A, V, H, T, L, N, K
- ☐ A, V, T, H, L, N, K
- ☐ A, T, H, K, L, N, V
- ☒ A, H, K, T, L, N, V

Clear selection

4. If the given input array is sorted or nearly sorted, which of the following algorithm gives the best performance?

1 point

- ☐ Selection Sort
- ☒ Insertion Sort
- ☐ Bubble Sort
- ☐ Radix sort

Clear selection

5. The number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order, using bubble sort is 1 point

- ☐ 11
- ☒ 10
- ☐ 12
- ☐ 13

Clear selection

6. Shell sort is a generalization of. 1 point

- ☐ Selection Sort
- ☒ Insertion Sort
- ☐ Bubble Sort
- ☐ Radix sort

Clear selection