CSC 212 Tutorial # 1 - Solution Revision

Problem 1

Two solutions are shown: selection sort and bubble sort.

• Selection sort:

Example 1.1. The symbol $_{\uparrow}$ denotes the position of i and $_{\uparrow}$ the position of min.

$$\begin{pmatrix}
12, 5, 8, 16, 9, 31 \\
5, 12, 8, 16, 9, 31 \\
5, 8, 12, 16, 9, 31 \\
6, 8, 9, 16, 12, 31 \\
5, 8, 9, 16, 12, 31
\end{pmatrix}$$

$$\begin{pmatrix}
5, 8, 9, 16, 12, 31 \\
6, 8, 9, 12, 16, 31
\end{pmatrix}$$

Problem 1 2

• Bubble sort:

Example 1.2.

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(12, 5, 8, 16, 9, |31)

(5, 8, 12, 9, |16, 31)

(5, 8, 9, |12, 16, 31)

(5, 8, |9, 12, 16, 31)

(5, |8, 9, 12, 16, 31)
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