

**Selection Sort**

1. Practice sorting the following data using Selection Sort. Write the correct sequence of integers for each value of outer after its inner loop has been completed:

| <i>outer</i> | 20    | 2     | 10    | 34    | 83    | 29    |
|--------------|-------|-------|-------|-------|-------|-------|
| 0            | _____ | _____ | _____ | _____ | _____ | _____ |
| 1            | _____ | _____ | _____ | _____ | _____ | _____ |
| 2            | _____ | _____ | _____ | _____ | _____ | _____ |
| 3            | _____ | _____ | _____ | _____ | _____ | _____ |
| 4            | _____ | _____ | _____ | _____ | _____ | _____ |

2. Rewrite the Selection Sort method to sort words using the String class.
3. Use your code in #2 to practice sorting words using Selection Sort. Write the correct sequence of words for each value of outer after its inner loop and swap have been completed:

| <i>outer</i> | programs | java  | always | very  | well  | document |
|--------------|----------|-------|--------|-------|-------|----------|
| 0            | _____    | _____ | _____  | _____ | _____ | _____    |
| 1            | _____    | _____ | _____  | _____ | _____ | _____    |
| 2            | _____    | _____ | _____  | _____ | _____ | _____    |
| 3            | _____    | _____ | _____  | _____ | _____ | _____    |
| 4            | _____    | _____ | _____  | _____ | _____ | _____    |