

Key to CSE143 Section #1 Problems

1.	Original List	Final List
	{8}	{8}
	{6, 3}	{6, 9}
	{2, 4, 6}	{2, 6, 12}
	{1, 2, 3, 4}	{1, 3, 6, 10}
	{7, 3, 2, 0, 5}	{7, 10, 12, 12, 17}

2. One possible solution appears below.

```
public int indexOf(int value) {
    for (int i = 0; i < size; i++) {
        if (elementData[i] == value) {
            return i;
        }
    }
    return -1;
}
```

3. One possible solution appears below.

```
public void stutter() {
    for (int i = size - 1; i >= 0; i--) {
        elementData[2 * i + 1] = elementData[i];
        elementData[2 * i] = elementData[i];
    }
    size *= 2;
}
```

4. One possible solution appears below.

```
public void remove(int index) {
    for (int i = index; i < size - 1; i++) {
        elementData[i] = elementData[i + 1];
    }
    size--;
}
```

5. One possible solution appears below.

```
public void add(int index, int value) {
    for (int i = size; i > index; i--) {
        elementData[i] = elementData[i - 1];
    }
    elementData[index] = value;
    size++;
}
```