```
1:
public void revisedSelectionSort(int a[], int n) {
    // define min and max index stores
    int idxMin, idxMax;
    // sweep left ot right
    for(int i = 0; i < n; i++) {
       //set indexes relative to outsides of sub array
       idxMin = n-i-1;
       idxMax = i;
       for(int j = i; j < n-i; j++) {
         // check for a max
         if(a[j] > a[idxMax]) {
            idxMax = j;
         }
         //check for a min
         if(a[j] < a[idxMin]) {
           idxMin = j;
         }
       }
       // perform max swap at index i
       int t = a[i];
       a[i] = a[idxMax];
       a[idxMax] = t;
       // perform min swap at index n-1-i
       t = a[n-1-i];
       a[n-1-i] = a[idxMin];
       a[idxMin] = t;
    }
  }
2:
```

The number of comparisons in the revised selection sort vs the number of comparisons in the original selection sort is the same. The original selection sort, there was 1 comparison per pass through the array. The revised selection sort uses 2 comparisons per pass but reduces the

number of iterations by half through creating sub arrays that size decrease by 2 per pass vs the 1 per pass of the original.