

Selection Sort

Pseudocode implementation

```
/* a[0] to a[n-1] is the array to sort */
int i, j;
int iMin;

for (j = 0; j < n-1; j++) {
    /* find the min element in the unsorted a[j .. n-1] */

    /* assume the min is the first element */
    iMin = j;
    /* test against elements after j to find the smallest */
    for ( i = j+1; i < n; i++) {
        /* if this element is less, then it is the new minimum */
        if (a[i] < a[iMin]) {
            /* found new minimum; remember its index */
            iMin = i;
        }
    }

    if(iMin != j) {
        swap(a[j], a[iMin]);
    }
}
}
```