Sorting

- Arrange elements in a list in some order
- Must specify which order
- Sort “in-place”
- Many algorithms:
  - Select sort
  - Insertion sort
  - Bubble sort, ...

Write a static method `selectSort` that:
- takes as input a reference to a 1-d numeric array
- sorts the numbers in ascending order in-place

```
// Loop from first to second last element
// Index i: 1st cell in unsorted segment
// Find index of min in unsorted segment
// Compare each element j in unsorted
// segment with min
// Swap ith element with min
```

Sort an array

Write a main method in class `SortNum`
- create a double array: 3,9,1,2
- sort the numbers in ascending order
- assume your `selectSort` method is in the same class

```
public class SortNum {
  public static void main(String[] args) {
    double[] arr = new double[] {3,9,1,2};
    selectSort(arr);
  }
  public static void selectSort(double[] a) {
    ...
  }
}
```