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package datastructure.Sort;

class SelectionSort {

    // 0  1  2  3  4
    // 1, 2, 3, 4, 5

    void sort(int[] arr) {

        for (int i = 0; i < arr.length - 1; i++) {

            int min_idx = i;

            for (int j = i + 1; j < arr.length; j++)

                if (arr[j] < arr[min_idx])

                    min_idx = j;

            int temp = arr[min_idx];

            arr[min_idx] = arr[i];

            arr[i] = temp;

        }

    }

    void printArray(int[] arr) {

        for (int i = 0; i < arr.length; ++i)

            System.out.print(arr[i] + " ");

        System.out.println();

    }

    public static void main(String[] args) {

        SelectionSort obj = new SelectionSort();

        int arr[] = { 4, 3, 5, 2, 1 };

        obj.sort(arr);

        System.out.println("Sorted array");

        obj.printArray(arr);

    }

}

```

