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A selective sort algorithm that uses iteration to

sort an array from low to high numbers.

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import java.util.Random;

public class SelectiveIteration

{

public static void main(String[] args)

{

int[] array = new int[10];

Random randomObj = new Random();

//This loop fills each index of the array with random numbers.

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

{

array[i] = randomObj.nextInt(1000);

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

}

System.out.println();

//sorts the array from lowest to highest numbers.

for (int j = 0; j < array.length; j++)

{

int minSize = 1000; // initializing variables for upcoming loop

int temp = -1;

int location = -1;

//This loop finds the smallest number and "saves" the data and location.

for (int k = j; k < array.length; k++)

{

if (array[k] < minSize)

{

minSize = array[k];

location = k;

}

}

//puts the lowest unsorted value into the first index

temp = array[j];

array[j] = minSize;

array[location] = temp;

}

//prints out the sorted array

for (int a = 0; a < array.length; a++)

{

System.out.print(array[a] + " ");

}

}

}