**Bubble Sort**

package com.java2novice.algos;

public class MyBubbleSort {

    // logic to sort the elements

    public static void bubble\_srt(int array[]) {

        int n = array.length;

        int k;

        for (int m = n; m >= 0; m--) {

            for (int i = 0; i < n - 1; i++) {

                k = i + 1;

                if (array[i] > array[k]) {

                    swapNumbers(i, k, array);

                }

            }

            printNumbers(array);

        }

    }

    private static void swapNumbers(int i, int j, int[] array) {

        int temp;

        temp = array[i];

        array[i] = array[j];

        array[j] = temp;

    }

    private static void printNumbers(int[] input) {

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

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

        }

        System.out.println("\n");

    }

    public static void main(String[] args) {

        int[] input = { 4, 2, 9, 6, 23, 12, 34, 0, 1 };

        bubble\_srt(input);

    }

}

|  |
| --- |
| Output: |
| 2, 4, 6, 9, 12, 23, 0, 1, 34,  2, 4, 6, 9, 12, 0, 1, 23, 34,  2, 4, 6, 9, 0, 1, 12, 23, 34,  2, 4, 6, 0, 1, 9, 12, 23, 34,  2, 4, 0, 1, 6, 9, 12, 23, 34,  2, 0, 1, 4, 6, 9, 12, 23, 34,  0, 1, 2, 4, 6, 9, 12, 23, 34,  0, 1, 2, 4, 6, 9, 12, 23, 34,  0, 1, 2, 4, 6, 9, 12, 23, 34,  0, 1, 2, 4, 6, 9, 12, 23, 34, |