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| Bubble Sort |
| Data Structures Made Easy |
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Dublin City university

# 1. *Bubble Sort*

class bubble\_Sort{

private static void swap(int [] bubble\_Array, int a, int b){

int temporary = bubble\_Array[a];

bubble\_Array[a] = bubble\_Array[b];

bubble\_Array[b] = temporary;

}

public static void bubble(int [] bubble\_Array, int size){

for(int index\_1 = 0; index\_1 < size; index\_1++){

for(int index\_2 = 1; index\_2 < (size - index\_1); index\_2++){

if(bubble\_Array[index\_2 - 1] > bubble\_Array[index\_2])

swap(bubble\_Array, index\_2 - 1, index\_2);

}

}

}

public static void main(String [] args){

System.out.print("Enter the number of elements: ");

int size = Console.readInt();

int [] bubble\_Array = new int[size];

System.out.print('\n' + "Enter the elements: ");

for(int index\_1 = 0; index\_1 < size; index\_1++){

int element = Console.readInt();

bubble\_Array[index\_1] = element;

}

bubble(bubble\_Array, size);

System.out.print('\n' + "The sorted list is: ");

for(int index\_2 = 0; index\_2 < size; index\_2++)

System.out.print(bubble\_Array[index\_2] + " ");

}

}