**Sort the array according to their cubes of each element**

**Given an array arr[] of N integers, the task is to sort the array according to the cubes of each element.**

**Examples:**

**Input: arr[] = { 4, -1, 0, -5, 6 }**

**Output: -5 -1 0 4 6**

**Input: arr[] = { 12, 3, 0, 11 }**

**Output: 0 3 11 12**

**Program:**

import java.util.\*;

public class Main

{

static int[] cudeSort(int[] a)

{

Arrays.sort(a);

return a;

}

public static void main(String[] args) {

int[] a = { 4, -1, 0, -5, 6 };

a=cudeSort(a);

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

{

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

}

System.out.println("Hello World");

}

}

**Form an array of distinct elements with each element as sum of an element from each array**

**Given two arrays, arr1[] and arr2[] of equal size, which contain distinct elements, the task is to find another array with distinct elements such that elements of the third array are formed by the addition of the one-one element of the arr1[] and arr2[].**

**Examples:**

**Input: arr[] = {1, 7, 8, 3}, arr2[] = {6, 5, 10, 2}**

**Output: 3 8 13 18**

**Explanation:**

**Index 0: 1 + 2 = 3**

**Index 1: 3 + 5 = 8**

**Index 2: 7 + 6 = 13**

**Index 3: 8 + 10 = 18**

**The elements of the array are distinct.**

**Input: arr1[] = {15, 20, 3}, arr2[] = {5, 4, 3}**

**Output: 6 19 25**

**Explanation:**

**Index 0: 3 + 3 = 6**

**Index 1: 15 + 4 = 19**

**Index 2: 20 + 5 = 25**

**The elements of the array are distinct.**

**Program:**

import java.util.\*;

public class Main

{

static void disStirng(int[] a,int[] b,int n)

{

int[] c = new int[20];

Arrays.sort(a);

Arrays.sort(b);

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

c[i] = a[i] + b[i];

}

for (int i = 0; i < n; i++)

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

}

public static void main(String[] args) {

int a[] = { 1, 7, 8, 3 };

int b[] = { 6, 5, 10, 2 };

disStirng(a,b,a.length);

}

}