*/\* EnForArrayDemo.java \*/*

*// Demonstrating accessing array elements*

**public** **class** EnForArrayDemo

{

**public** **static** **void** main([String](http://www.google.com/search?hl=en&q=allinurl%3Adocs.oracle.com+javase+docs+api+string)[] args)

{

**int**[][] arrTwoD = **new** **int**[3][];

arrTwoD[0] = **new** **int**[2];

arrTwoD[1] = **new** **int**[3];

arrTwoD[2] = **new** **int**[4];

**for**(**int**[] arr : arrTwoD)

{

**for**(**int** elm : arr)

{

[System](http://www.google.com/search?hl=en&q=allinurl%3Adocs.oracle.com+javase+docs+api+system).out.print(elm + " ");

}

[System](http://www.google.com/search?hl=en&q=allinurl%3Adocs.oracle.com+javase+docs+api+system).out.println();

}

}

}

OUTPUT

======

0 0

0 0 0

0 0 0 0

*/\* NegativeArraySizeDemo.java \*/*

*// Demonstrating negative-sized array*

**public** **class** NegativeArraySizeDemo

{

**public** **static** **void** main([String](http://www.google.com/search?hl=en&q=allinurl%3Adocs.oracle.com+javase+docs+api+string)[] args)

{

*/\* following declaration throw a*

*\* run time exception*

*\* java.lang.NegativeArraySizeException*

*\*/*

**int**[] arr = **new** **int**[-2];

}

}

OUTPUT

======

D:\>javac NegativeArraySizeDemo.java

D:\>java NegativeArraySizeDemo

[Exception](http://www.google.com/search?hl=en&q=allinurl%3Adocs.oracle.com+javase+docs+api+exception) in thread "main" java.lang.[NegativeArraySizeException](http://www.google.com/search?hl=en&q=allinurl%3Adocs.oracle.com+javase+docs+api+negativearraysizeexception)

at NegativeArraySizeDemo.main(NegativeArraySizeDemo.java:12)

D:\>

*/\* EmptyArrayDemo.java \*/*

*// Demonstrating empty array*

**public** **class** EmptyArrayDemo

{

**public** **static** **void** main([String](http://www.google.com/search?hl=en&q=allinurl%3Adocs.oracle.com+javase+docs+api+string)[] args)

{

**int**[] emptyArray = **new** **int**[0];

*//will print 0, if length of array is printed*

[System](http://www.google.com/search?hl=en&q=allinurl%3Adocs.oracle.com+javase+docs+api+system).out.println(emptyArray.length);

*//will throw java.lang.ArrayIndexOutOfBoundsException exception*

emptyArray[0] = 1;

}

}

Sorting of Array

1. **import** java.util.Scanner;
2. **public** **class** Descending\_Order
3. {
4. **public** **static** **void** main(String[] args)
5. {
6. **int** n, temp;
7. Scanner s = **new** Scanner(System.in);
8. System.out.print("Enter no. of elements you want in array:");
9. n = s.nextInt();
10. **int** a[] = **new** **int**[n];
11. System.out.println("Enter all the elements:");
12. **for** (**int** i = 0; i < n; i++)
13. {
14. a[i] = s.nextInt();
15. }
16. **for** (**int** i = 0; i < n; i++)
17. {
18. **for** (**int** j = i + 1; j < n; j++)
19. {
20. **if** (a[i] < a[j])
21. {
22. temp = a[i];
23. a[i] = a[j];
24. a[j] = temp;
25. }
26. }
27. }
28. System.out.print("Descending Order:");
29. **for** (**int** i = 0; i < n - 1; i++)
30. {
31. System.out.print(a[i] + ",");
32. }
33. System.out.print(a[n - 1]);
34. }
35. }
36. Output:
37. $ javac Descending\_Order.java
38. $ java Descending\_Order
40. Enter no. of elements you want in array:5
41. Enter all the elements:
42. 2
43. 3
44. 5
45. 1
46. 4
47. Descending Order:5,4,3,2,1