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ITMD 411

Console output:

A forwards:

[1, 2, 3, 4, 5]

A backwards:

[5, 4, 3, 2, 1]

[PASS 000]: Random array of 0 numbers from 10 - 5:

[6, 1, 0, 4, 7]

Are there dupes? 'false'

[PASS 001]: Random array of 0 numbers from 10 - 5:

[6, 9, 7, 4, 9]

array[ 1] == array[ 4], or ( 9) == ( 9)!

Are there dupes? 'true'

[PASS 002]: Random array of 0 numbers from 10 - 5:

[2, 10, 0, 9, 1]

Are there dupes? 'false'

[PASS 003]: Random array of 0 numbers from 10 - 5:

[8, 2, 2, 7, 9]

array[ 1] == array[ 2], or ( 2) == ( 2)!

Are there dupes? 'true'

[PASS 004]: Random array of 0 numbers from 10 - 5:

[7, 6, 8, 0, 10]

Are there dupes? 'false'

1. **import** java.util.Arrays;
2. **import** java.util.Random;
4. **public** **class** revArr
5. {
6. **public** **static** Integer[] reverseIntArray(Integer[] arr1)
7. {
8. Integer[] arr2 = **new** Integer[arr1.length];
9. **for**(**int** i = 0; i < arr1.length; i++)
10. {
11. arr2[i] = arr1[arr1.length-1-i];
12. }
14. **return** arr2;
15. }
17. **public** **static** Integer[] randRange(**int** min, **int** max, **int** times)
18. {
19. Random rand = **new** Random();
21. Integer[] ret = **new** Integer[times];
23. **int** range = max - min + 1;
25. **for**(**int** i = 0; i < times; i++)
26. {
27. ret[i] = rand.nextInt(range) + min;
28. }
30. **return** ret;
31. }
33. **public** **static** Boolean containsDupes(Integer[] array)
34. {
35. Boolean ret = **false**;
36. **for**(**int** i = 0; i < array.length; i++)
37. {
38. **for**(**int** j = 0; j < array.length; j++)
39. {
40. **if**(i != j) //to not look at l[4] == l[4].
41. {
42. **if**(array[i] == array[j])//numbers are the same.
43. {
44. System.out.printf("array[%2d] == array[%2d], or (%3d) == (%3d)!\n",i,j,array[i],array[j]);
45. ret = **true**;
46. **return** ret;
47. }
48. }
50. }
51. }
52. **return** ret;
53. }

56. **public** **static** **void** main(String[] args)
57. {
58. Integer[] a = {1,2,3,4,5};
60. System.out.println("A forwards:");
61. System.out.println(Arrays.toString(a));
62. System.out.println();
64. System.out.println("A backwards:");
65. System.out.println(Arrays.toString((reverseIntArray(a))));
66. System.out.println();
68. Integer[] r;
70. **int** stt = 0;
71. **int** stp = 10;
72. **int** times = 5;
74. **for**(**int** i = 0; i < 5; i++)
75. {
76. System.out.printf("[PASS %03d]: Random array of %d numbers from %d - %d:\n",i,stt,stp,times);
77. r = randRange(stt, stp, times);
78. System.out.println(Arrays.toString(r));
79. System.out.printf("Are there dupes? '%s'",containsDupes(r).toString());
80. System.out.println("\n\n");
81. }
83. }
84. }

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