CS4A Lab #5 Arrays Professor Tom DeDonno   
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1) Array Sizes

double[][] m = { {1, 4, -7}, {2, -1, 4}, {0, -9,18 } };  
double[][] n = { {2,3}, {3, 4, 5}, {0,1, 2} , {1} };

How many rows does m have? 3  
How many rows does n have? 4

What does n[ (int)m[0][0] ].length equal? 3 – Expression ends up being n[1].length which countes the number of columns in row 1.

Which matrix occupies more space on the heap and why?

2) Where is the method arraycopy located?

Java.lang.system

3) Does the following code resize the array (explain)?

int[] myList; myList = new int[10];

// Sometime later you want to assign a new array to myList

myList = new int[20];

4) True or false? When an array is passed to a method, a new array is created and passed to the method.

5) What sorting algorithms does Arrays.sort uses and why?

5) Use Figure 7.9 (or binary search method discussed in class) as an example to show how to apply the binary search approach to a search for key 10 and key 12 in list {2, 4, 7, 10, 11, 45, 50, 59, 60, 66, 69, 70, 79}.

6) Use Figure 7.11 as an example to show how to apply the selection-sort approach to sort {3.4, 5, 3, 3.5, 2.2, 1.9, 2}.