

Chapter 6 – Arrays – Review Questions

These are some review questions about Arrays.

1-D Arrays

1. Why do you use arrays?
2. How do you declare an array?
3. How do you create an array?
4. What values are in an array when it is created?
5. How do you put values into an array? (there are two ways)
6. Where are arrays stored in memory?
7. How do you determine how many elements an array will hold?
8. In an array with n elements, what are the valid indices?
9. How do you change a value in an array?
10. How do you get a value in an array to use in some computation?
11. How do you loop through the elements in an array (two ways)?
12. How do you copy an array?
13. How do you pass an array to a method?
14. How do you call a method that takes an array as an argument?
15. Arrays are passed to a method by reference, true or false?
16. How do you return an array from a method?
17. An array is returned from a method by reference, true or false?
18. When you search an array for a *key*, what are the common values that you return?
19. How do you do a linear search of an array?
20. How do you do a binary search of an array?
21. How does a selection sort work?
22. How does an insertion sort work?
23. What are two important methods of the Arrays class?

2-D Arrays

24. Why do you use 2-d arrays?
25. How do you declare a 2-d array?
26. How do you create a 2-d array?
27. How do you determine how many rows there are in a 2-d array?
28. How do you determine how many columns there are in a particular row of a 2-d array?
29. How do you change a value in a 2-d array?
30. How do you get a value in a 2-d array to use in some computation?
31. How do you loop through the rows in a 2-d array?
32. How do you loop through the columns in a 2-d array?
33. How do you loop through the diagonals in a 2-d array?