

Search/Sort Algorithms

1. Consider an array of integers: 2, 4, 5, 8, 9, 11, 15, 16

Draw out how the array would search for the value 16 using the **binary search** algorithm. Use the state of memory model, that is show a sectioned array body and indexes (deductions apply otherwise).

2. Consider an array of integers: 7, 4, 3, 8, 6, 5, 9, 2

Draw out how the array would be sorted (showing each pass of the array using the **quick sort** algorithm. Note: Show sectioned array bodies and indexes (deductions apply otherwise).