Search-Sort Algorithms

1. Consider an array of integers: `2, 4, 5, 9, 11, 13, 14, 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: `5, 2, 11, 8, 13, 4, 9`

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