Sorting. Binary Search

1. Given an array. Write a function that sorts it using bubble sort.
2. Given an array. Write a function that sorts it using merge sort.
3. Given a sorted array and an element from that array. Find the index of that element using binary search.

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| **Input** | **Output** |
| [-10, 3, 6, 12, 7, -15], 3 | 2 |
| [-10, 3, 6, 12, 7, -15], 12 | 5 |

1. Given a word and a list of possible anagrams, select the correct sublist.

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| **Input** | **Output** |
| “listen”, ["enlists" "google" "inlets" "banana"] | [“inlets”] |
| “pencil”, [“licnep”, “circular”, “pupil”, “nilcpe”, “leppnec”] | [“licnep”, “nilcpe”] |