

Binary Search Handout - fill in the low, mid, and high columns, then show what binary search would return in each case.

```
x = 99
L = [-20, -12, -4, 1, 7, 44, 45, 46, 58, 67, 99, 145]
index: 0 1 2 3 4 5 6 7 8 9 10 11
      low mid high
      -----
```

```
x = -10
L = [-20, -12, -4, 1, 7, 44, 45, 46, 58, 67, 99, 145]
index: 0 1 2 3 4 5 6 7 8 9 10 11
      low mid high
      -----
```

```
x = "misha"
L = ["anya", "christina", "clarissa", "michelle", "pravadh", "rachel", "rye", "scout", "tristan"]
index: 0      1      2      3      4      5      6      7      8
        low  mid  high
-----
```

```
x = "rye"
L = ["anya", "christina", "clarissa", "michelle", "pravadh", "rachel", "rye", "scout", "tristan"]
index: 0      1      2      3      4      5      6      7      8
        low  mid  high
-----
```