

Search Algorithms

1. For each of the following lists, would binary or linear search run faster to find 110?

a) [110, 104, 83, 249, 50]

b) [15, 11, 49, 400, 110, 90, 64]

c) [15, 11, 49, 400, 90, 64]

2. Write, in order, the elements checked to find 6 in the following list for both linear and

binary search: $L = [1, 5, 6, 10, 11, 12]$. (For binary search, assume middle element is extracted with

$\text{len}(L)//2$)