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Data Structures 3:00 MWF
2/6/03
P 55 #'s 1, 2, 6, 7   P 83 #'s 1, 4

Pg 55
1.Target = 43
    Low = 0
    High = 9
    Middle = 4

    Low = 0
    High = 3
    Middle = 2

    Low = 0
    High = 1
    Middle = 0
    Not Found

    Target = 40
    Low = 0
    High = 9
    Middle = 4

    Low = 0
    High = 3
    Middle = 2

    Low = 0
    High = 1

Found! (Index[1])

Target = 90
Low = 0
High = 9
Middle = 4

Low = 5
High = 9
Middle = 6

Low = 7
High = 9
Middle = 8
Found (Index[9])
2. Data Set: 0 1 2 3 4 5 6 7 8 9
    Target = 2 or 7
    Best case scenario
    Target = 0, 9
    Worst case scenarios
6. Yes this search algorithm will work correctly for data but it takes more time than the original algorithm because it is checking values that have already been checked.
7. This search algorithm will work correctly for data provided that the index is not zero.

P 83
1.