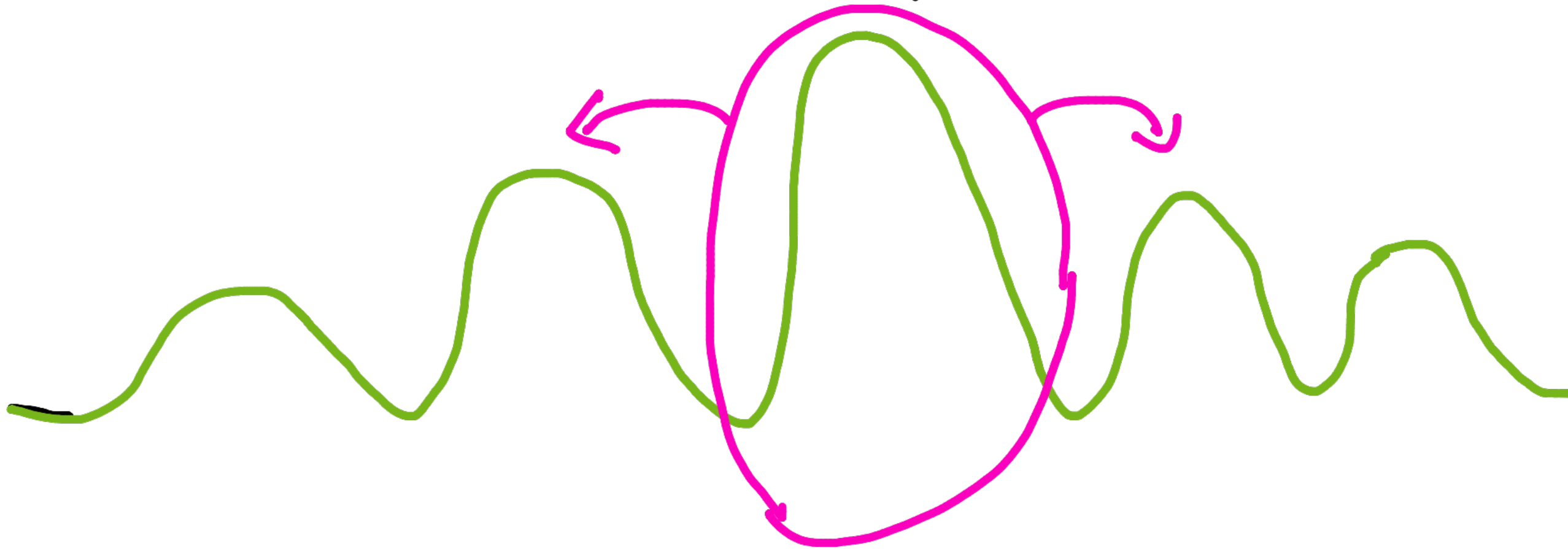# Peak Element

$$list1 = [1, 2, 3, 2, 1]$$

list2 = [1, 2, 3]

list3 = [5, 10, 20, 15]

list4 = [10, 20, 15, 2, 23, 90, 61]

list5 = [20, 20, 20]

$x = [1, 2, 3]$

$x[0] = 1$ $x[-1]$ X LOI Error

$x[1] = 2$

$x[2] = 3$

$x[3]$ X LOI Error

Sort the list of 0s 1s 2s

list1 = [0 1 0 1 1 2 0 1 2 0 0]

soln => [0 0 0 0 0 1 1 1 1 2 2]

list2 = [0 2 0 2]

soln = [0 0 2 2]

$$l = [2\ 2\ 0\ 0\ 1\ 1]$$

$$S = [0\ 0\ 1\ 1\ 2\ 2]$$

$$l = [0\ 1\ 2\ 0]$$

$$s = [0\ 0\ 1\ 2]$$