

Worksheet #11: One-dimensional Iterative Averaging Example

Name: _____

Netid: _____

1) Assuming $n=9$ and the input array below, perform one iteration of the iterative averaging example by only filling in the blanks for odd values of j in the `myNew[]` array. Recall that the computation is “`myNew[j] = (myVal[j-1] + myVal[j+1])/2.0;`”

index, j	0	1	2	3	4	5	6	7	8	9	10
myVal	0	0	0.2	0	0.4	0	0.6	0	0.8	0	1
myNew	0		0.2		0.4		0.6		0.8		1

2) Will the contents of `myVal[]` and `myNew[]` change in further iterations, after `myNew` above in 1) becomes `myVal[]` in the next iteration?

