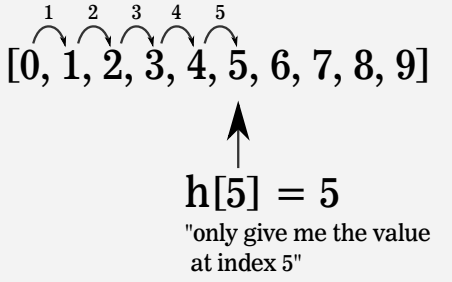
When indexing and slicing this numpy array:

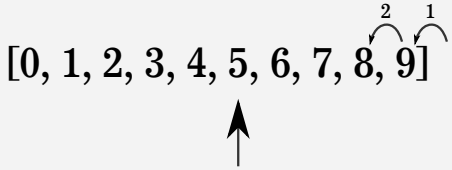
h=np.array([0, 1, 2, 3, 4, 5, 6, 7, 8, 9])

Simple Index:



h[5] = 5

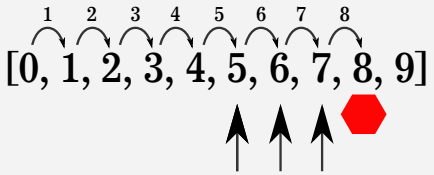
"only give me the value at index 5"



h[-2] = 8

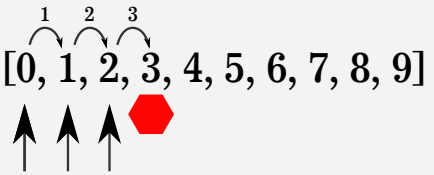
"only give me the value at the 2nd to last index

Slice:



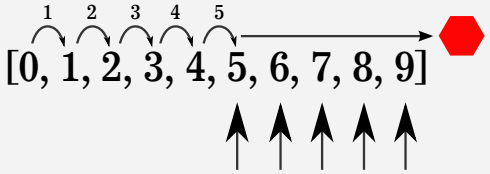
h[5:8] = array([5, 6, 7])

"give me a slice (array) starting at index 5 and stopping, but not including index 8"



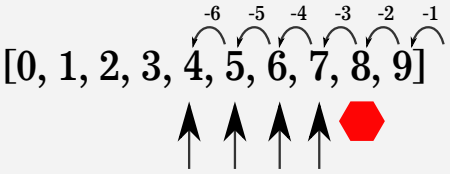
h[:3] = array([0, 1, 2])

"give me a slice (array) starting at index 0 and stopping, but not including index 3"



h[5:] = array([5, 6, 7, 8, 9])

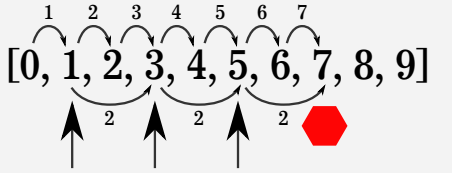
"give me a slice (array) starting at index 5 and stopping at the end of the array"



h[-6:-2] = array([4, 5, 6, 7])

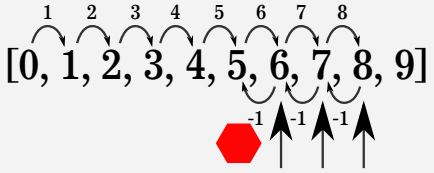
"give me a slice (array) starting at 6th index from the end and stopping, but not including, the 2nd index from the end"

Slice, with step:



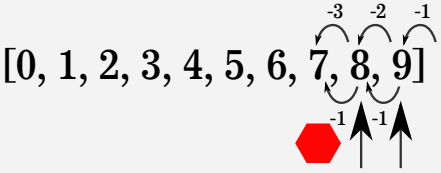
h[1:7:2] = array([1, 3, 5])

"give me a slice (array) starting at index 1 and stopping, but not including index 7, with a step value of 2



h[8:5:-1] = array([8, 7, 6])

"give me a slice (array) starting at index 9 and stopping, but not including index 5, with a step value of -1 (i.e. in reverse)



h[:-3:-1] = array([9, 8])

"give me a slice (array) starting at the end of the array, and stopping at the 3rd index from the end with a step value of -1 (i.e. in reverse)