Recursive binary search

def binary_search(array, target, low, high):

if low > high:

return -1

mid = (low + high) // 2

if array[mid] == target:	A.
return mid elif array[mid] < target: return binary_search(array, target, mid=1), high) else: return maty_search(array, target, low, mid=1)	lo co.un
elif array[mid] < target:	esale
return binary_search(array, target, mid-of) high)	+ 3
else:	010
return maty_search(array, target, low, mid - 1)	

The explanation of binary search:

- The algorithm starts by setting the low and high pointers to the first and last elements of the array, respectively.
- The algorithm then calculates the middle element of the array, which is the element at index (low + high) // 2.
- The algorithm compares the target value to the middle element.
 - \circ If the target value is equal to the middle element, the algorithm returns its index.
 - \circ If the target value is less than the middle element, the algorithm sets the high pointer to the middle element 1 and continues the search in the lower half of the array.
 - \circ If the target value is greater than the middle element, the algorithm sets the low pointer to the middle element + 1 and continues the search in the upper half of the array.
- The algorithm repeats steps 2-4 until the target value is found or the low and high pointers cross each other, in which case the algorithm returns -1.