Function correctMajorityElement(arr):

majorityCandidate = findMajorityCandidate(arr)

if isMajority(arr, majorityCandidate):

return majorityCandidate

else:

return "No majority element exists"

Function findMajorityCandidate(arr):

candidate = arr[0]

count = 1

for i from 1 to len(arr)-1:

if arr[i] == candidate:

count++

else:

count--

if count == 0:

candidate = arr[i]

count = 1

return candidate

Function isMajority(arr, candidate):

count = 0

for element in arr:

if element == candidate:

count++

return count > len(arr)/2