#this method sort the array that all

#the even number in the first and the odd

#number in the even, and reutnr #the number os swap,

#e.g. in array = [17,4,8], there is a 17 odd number and 8 #even number. #swaping so swapping them and the move is 1

function sort\_even\_odd(data)

left = 1

right = length(data)

moves = 0

while left < right

while iseven(data[left]) && left < right

left += 1

end

while isodd(data[right]) && left < right

right -= 1

end

if left < right

data[left],data[right] = data[right],data[left]

left += 1

right -= 1

moves += 1

end

end

#data, moves

moves

end

data = [17 4 8];

println("Total " , sort\_even\_odd(data))