0005

a = []

b = []

c = int(input())

all = input().split()

all = all[:c]

for i in all:

if int(i) % 2 == 0:

a.append(int(i))

else:

b.append(int(i))

for i in b:

print(i, end=' ')

print()

for i in a:

print(i, end=' ')

print()

print('YES' if len(a) >= len(b) else 'NO')