#include <stdio.h>

#include <limits.h>

void findSecondSmallestAndLargest(int arr[], int size, int \*secondSmallest, int \*secondLargest) {

int smallest, largest;

smallest = largest = INT\_MAX;

for (int i = 0; i < size; i++) {

if (arr[i] < smallest) {

\*secondSmallest = smallest;

smallest = arr[i];

} else if (arr[i] < \*secondSmallest && arr[i] != smallest) {

\*secondSmallest = arr[i];

}

if (arr[i] > largest) {

\*secondLargest = largest;

largest = arr[i];

} else if (arr[i] > \*secondLargest && arr[i] != largest) {

\*secondLargest = arr[i];

}

}

}

int main() {

int size;

printf("Enter the size of the array: ");

scanf("%d", &size);

if (size <= 1) {

printf("Please enter a size greater than 1.\n");

return 1;

}

int arr[size];

printf("Enter %d elements of the array:\n", size);

for (int i = 0; i < size; i++) {

scanf("%d", &arr[i]);

}

int secondSmallest, secondLargest;

findSecondSmallestAndLargest(arr, size, &secondSmallest, &secondLargest);

if (secondSmallest % 2 == 0) {

secondSmallest += 2;

} else {

secondSmallest -= 2;

}

if (secondLargest % 2 == 0) {

secondLargest \*= 2;

} else {

secondLargest /= 2;

}

for (int i = 0; i < size; i++) {

if (arr[i] == secondSmallest) {

arr[i] = secondSmallest;

} else if (arr[i] == secondLargest) {

arr[i] = secondLargest;

}

}

printf("Modified array:\n");

for (int i = 0; i < size; i++) {

printf("%d ", arr[i]);

}

printf("\n");

return 0;

}