Given condition is that the array contains all the **unique** elements. Then take the **sum** as an integer input and print all the **permutations** of the pairs that add up to the given **sum k**.

## Input Format

First line contains an integer number **n** representing size of array.

Second line contains **n** integer numbers representing elements of the array.

Third line contains an integer number k

#### Constraints

```
1 <= n <= 100000

0 <= array[index] <= 100000

0 <= k <= 1000000
```

## Output Format

Print all pair that gives the sum equals to the given number k.

# Sample Input 0

```
5
1 2 3 4 5
8
```

## Sample Output 0

```
3 5
4 4
5 3
```

# Explanation 0

```
Since arr[2]+arr[4] = 8
arr[3]+arr[3] = 8
arr[4]+arr[2] = 8
```

# Submitted Code

```
Language: Java 15
 1 import java.io.*;
 2 import java.util.*;
 4 public class Solution {
      public static void main(String[] args) {
          Scanner sc = new Scanner(System.in);
           int n =sc.nextInt();
           int arr[] = new int[n];
           for(int i=0;i<arr.length;i++)arr[i]=sc.nextInt();</pre>
11
12
           int k=sc.nextInt();
13
           findPair(arr,k);
14
15
       public static void findPair(int arr[] , int k){
16
           for(int i=0;i<arr.length;i++){
17
               for(int j=0;j<arr.length;j++){</pre>
18
                   if(arr[i]+arr[j]==k)System.out.println(arr[i]+" "+arr[j]);
21
22 }
```

[1,7] 3000 Sx: x = 8 3 S Take the array of size **n** and their values from **user**. And Print all the **permutation pairs** in the array from the

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#### Input Format

First line contains an integer number **n** representing size of array.

Second line contains **n** numbers representing elements of the array and all element will be **unique**.

#### Constraints

```
1 <= n <= 100000
0 <= array[index] <= 100000
```

## Output Format

Print all pairs in differnt line.

#### Sample Input 0

```
5
1 2 3 4 5
```

# Sample Output 0

# **Submitted Code**

```
Language: Java 15
 1 import java.io.*;
 2 import java.util.*;
 4 public class Solution {
        public static void main(String[] args) {
          Scanner sc = new Scanner(System.in);
           int n =sc.nextInt();
           int arr[] = new int[n];
           for(int i=0;i<arr.length;i++)arr[i]=sc.nextInt();</pre>
12
           reversePair(arr);
13
       public static void reversePair(int arr[] ){
           for(int i=arr.length-1;i>=0;i--){
               for(int j=arr.length-1;j>=0;j--){
                   System.out.println(arr[i]+" "+arr[j]);
19
20
21 }
```

[ 1, 7, 3, 4, 5]

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Take the array of size n and their values from user. And Find Pairs whose sum is odd.

#### Input Format

First line contains an integer number n representing size of array.

Second line contains n numbers representing elements of the array and all element will be unique.

#### Constraints

```
1 <= n <= 100000
0 <= array[index] <= 100000
```

## **Output Format**

Print the required pairs in different lines.

#### Sample Input 0

```
3
1 2 3
```

## Sample Output 0

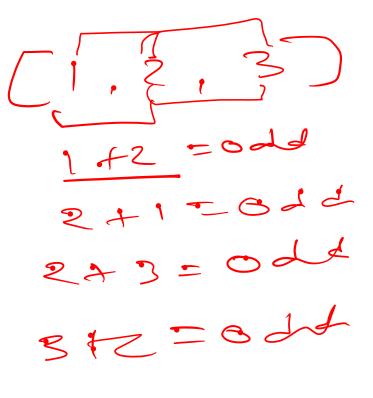
```
1 2
2 1
2 3
3 2
```

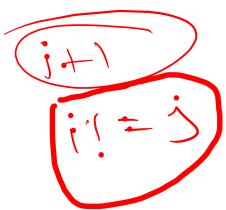
# Explanation 0

```
arr[0]+arr[1] = 1+2 = odd
arr[1]+arr[0] = 2+1 = odd
arr[1]+arr[3] = 2+3 = odd
arr[0]+arr[1] = 1+2 = odd
```

# Submitted Code

```
Language: Java 15
 1 import java.io.*;
 2 import java.util.*;
4 public class Solution {
       public static void main(String[] args) {
         Scanner sc = new Scanner(System.in);
8
           int n =sc.nextInt();
9
           int arr[] = new int[n];
10
           for(int i=0;i<arr.length;i++)arr[i]=sc.nextInt();</pre>
11
12
13
           oddPair(arr);
14
      }
15
      public static void oddPair(int arr[] ){
16
           for(int i=0;i<arr.length;i++){</pre>
17
               for(int j=0;j<arr.length;j++){</pre>
18
                   if(i!=j && (arr[i]+arr[j])%2!=0)System.out.println(arr[i]+" "+arr[j]);
19
21
```





Take the **array** and **k** as an integer input. Given condition is that the array contains all the **unique** elements.

Then take the **sum** as an integer input and print all the permutations of the pairs whose **absolute difference is** 

#### K.

#### Input Format

First line contains an integer number **n** representing size of array.

Second line contains  ${\bf n}$  integer numbers representing elements of the array.

Third line contains an integer number k

#### Constraints

```
1 <= n <= 100000
0 <= array[index] <= 100000
0 <= k <= 1000000
```

#### **Output Format**

Print the required permutation in different line.

#### Sample Input 0

```
5
1 2 3 4 5
3
```

# Sample Output 0

```
1 4
2 5
4 1
5 2
```

# Explanation 0

```
|arr[0]-arr[3]| = |1-4| = 3
|arr[1]-arr[4]| = |2-5| = 3
|arr[3]-arr[1]| = |4-1| = 3
|arr[4]-arr[1]| = |5-2| = 3
```

# **Submitted Code**

```
Language: Java 15
 1 import java.io.*;
 2 import java.util.*;
 4 public class Solution {
       public static void main(String[] args) {
          Scanner sc = new Scanner(System.in);
           int n =sc.nextInt();
           int arr[] = new int[n];
           for(int i=0;i<arr.length;i++)arr[i]=sc.nextInt();</pre>
           int k=sc.nextInt();
           findDiffer(arr,k);
       public static void findDiffer(int arr[] , int k){
           for(int i=0;i<arr.length;i++){
               for(int j=0;j<arr.length;j++){
                   if(Math.abs(arr[i]-arr[j])==k)System.out.println(arr[i]+" "+arr[j]);
20
21
22 }
```