No.	Test case	Correctness(Y or N)
1	Same as sample	Y
2	Min size(N=1)	Y
3	Max size(N=1000)(random)	Y
4	Input numbers including 0	Y
5	One than one non-negative integers	Y
6	Produce collision at N-1	Y
7	Random case	Y
8	All non-negative integers	Y

1. Sample

Input :

11

 33 1 13 12 34 38 27 22 32 -1 21

Output :

1 13 12 21 33 34 38 27 22 32

```
11
33 1 13 12 34 38 27 22 32 -1 21
1 13 12 21 33 34 38 27 22 32
--------------------------------
Process exited after 1.457 seconds with return value 0
请按任意键继续. . .
```

2. Min Size(N=1)

Input :

1

1

Output :

1

```
1
1
1
--------------------------------
Process exited after 8.129 seconds with return value 0
请按任意键继续. . .
```
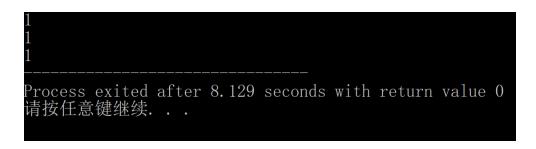
3. Max Size(N=1000)

See at the test1.txt and test1.png

4. Input numbers including 0

Input ;

10

0 19 -1 3 2973 -10 -7 7 -14 9

Output :

0 3 7 9 19 2973

```
10
0 19 -1 3 2973 -10 -7 7 -14 9
0 3 7 9 19 2973
--------------------------------
Process exited after 3.575 seconds with return value 0
请按任意键继续. . .
```

5. More than one non-negative integers

Input :

10

9320 271 2 19212 -10 23565 32765 37 7 -1

Output :

2 37 7 271 9320 19212 23565 32765

```
10
9320 271 2 19212 -10 23565 32765 37 7 -1
2 37 7 271 9320 19212 23565 32765
--------------------------------
Process exited after 0.7523 seconds with return value 0
请按任意键继续. . .
```

6. Produce collision at N-1

Input :

10

19 1 2 3 4 5 6 7 8 9

Output :

 1 2 3 4 5 6 7 8 9 19

```
10
19 1 2 3 4 5 6 7 8 9
1 2 3 4 5 6 7 8 9 19
--------------------------------
Process exited after 1.571 seconds with return value 0
请按任意键继续. . .
```

7. Random case (using random function rand())

Input :
10
14300 7260 15842 31741 24593 21340 -1 -2 17888 -3
Output :
14300 7260 15842 17888 31741 24593 21340

```
10
14300 7260 15842 31741 24593 21340 -1 -2 17888 -3
14300 7260 15842 17888 31741 24593 21340
------------------------------
Process exited after 17.52 seconds with return value 0
请按任意键继续. . .
```

8. All empty

Input :
8
-1 -1 -1 -1 -1 -1 -1 -1
Output :
(Null)

```
8
-1 -1 -1 -1 -1 -1 -1 -1

------------------------------
Process exited after 1.495 seconds with return value 0
请按任意键继续. . .
```

Analysis: Besides 4 .required test cases, we add another 4 test cases which are listed in the chart in order to test whether the program can run correctly when meeting some special input cases. Specially, in maximum cases and random cases, we use our self-defined generating program to generate the data randomly.

Comments: As is shown above, we can clearly find that every case we check is successfully pass the test and as a result, we can draw the conclusion that the program can run without obvious bug.