********** OUTPUT **********

```
static int []nums = new int[]{100,4,200,1,3,2};
```

Welcome to Online IDE!! Happy Coding :)

This is the number being checked: 100

This is the number being checked: 4

This is the number being checked: 200

This is the number being checked: 1
Next consecutive number has appeared: 2
Next consecutive number has appeared: 3
Next consecutive number has appeared: 4

This is the number being checked: 3
Next consecutive number has appeared: 4

This is the number being checked: 2
Next consecutive number has appeared: 3
Next consecutive number has appeared: 4

Length of store: 6
********These are all entries*********
[100, 0, 0, 0, 0, 0]
[4, 0, 0, 0, 0, 0]
[200, 0, 0, 0, 0, 0]
[1, 2, 3, 4, 0, 0]
[3, 4, 0, 0, 0, 0]
[2, 3, 4, 0, 0, 0]

******NEW NUMBER*****: [100, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 0
Zero found at index: 1
This is current highest streak of consecutiveNumbers: 0
This is newly identified streak of consecutive Numbers: 1
Highest consecutive number sequence so far: 100

******NEW NUMBER*****: [4, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 1
Zero found at index: 1
The following: 4 has been stored.
It is also equal to current maximum sequence of consecutive numbers: 1

******NEW NUMBER*****: [200, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 1
Zero found at index: 1
The following: 200 has been stored.
It is also equal to current maximum sequence of consecutive numbers: 1

******NEW NUMBER*****: [1, 2, 3, 4, 0, 0]
This is current highest consecutiveNumbers: 1
Zero found at index: 4

This is current highest streak of consecutiveNumbers: 1
This is newly identified streak of consecutive Numbers: 4
Highest consecutive number sequence so far: 1,2,3,4

******NEW NUMBER*****: [3, 4, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 4
Zero found at index: 2

******NEW NUMBER*****: [2, 3, 4, 0, 0, 0]
This is current highest consecutiveNumbers: 4
Zero found at index: 3

****
Longest consecutive sequence: 4
****
1,2,3,4

** Process exited - Return Code: 0 **

********** OUTPUT **********

Introducing a 0

```
static int []nums = new int[]{100,4,200,1,0,3,2};
```

Welcome to Online IDE!! Happy Coding :)

This is the number being checked: 100

This is the number being checked: 4

This is the number being checked: 200

This is the number being checked: 1
Next consecutive number has appeared: 2
Next consecutive number has appeared: 3
Next consecutive number has appeared: 4

This is the number being checked: 0
Next consecutive number has appeared: 1
Next consecutive number has appeared: 2
Next consecutive number has appeared: 3
Next consecutive number has appeared: 4

This is the number being checked: 3
Next consecutive number has appeared: 4

This is the number being checked: 2
Next consecutive number has appeared: 3
Next consecutive number has appeared: 4

Length of store: 7
********These are all entries*********
[100, 0, 0, 0, 0, 0, 0]

[4, 0, 0, 0, 0, 0, 0]
[200, 0, 0, 0, 0, 0, 0]
[1, 2, 3, 4, 0, 0, 0]
[0, 1, 2, 3, 4, 0, 0]
[3, 4, 0, 0, 0, 0, 0]
[2, 3, 4, 0, 0, 0, 0]

******NEW NUMBER*****: [100, 0, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 0
Zero found at index: 1
This is current highest streak of consecutiveNumbers: 0
This is newly identified streak of consecutive Numbers: 1
Highest consecutive number sequence so far: 100

******NEW NUMBER*****: [4, 0, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 1
Zero found at index: 1
The following: 4 has been stored.
It is also equal to current maximum sequence of consecutive numbers: 1

******NEW NUMBER*****: [200, 0, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 1
Zero found at index: 1
The following: 200 has been stored.
It is also equal to current maximum sequence of consecutive numbers: 1

******NEW NUMBER*****: [1, 2, 3, 4, 0, 0, 0]
This is current highest consecutiveNumbers: 1
Zero found at index: 4
This is current highest streak of consecutiveNumbers: 1
This is newly identified streak of consecutive Numbers: 4
Highest consecutive number sequence so far: 1,2,3,4

******NEW NUMBER*****: [0, 1, 2, 3, 4, 0, 0]
This is current highest consecutiveNumbers: 4
Zero found at index: 5
This is current highest streak of consecutiveNumbers: 4
This is newly identified streak of consecutive Numbers: 5
Highest consecutive number sequence so far: 0,1,2,3,4

******NEW NUMBER*****: [3, 4, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 5
Zero found at index: 2

******NEW NUMBER*****: [2, 3, 4, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 5
Zero found at index: 3

****
Longest consecutive sequence: 5
****
0,1,2,3,4

** Process exited - Return Code: 0 **

********** OUTPUT **********

No consecutive numbers

```
static int []nums = new int[]{100,4};
```

Welcome to Online IDE!! Happy Coding :)

This is the number being checked: 100

This is the number being checked: 4

Length of store: 2
********These are all entries*********
[100, 0]
[4, 0]

******NEW NUMBER*****: [100, 0]
This is current highest consecutiveNumbers: 0
Zero found at index: 1
This is current highest streak of consecutiveNumbers: 0
This is newly identified streak of consecutive Numbers: 1
Highest consecutive number sequence so far: 100

******NEW NUMBER*****: [4, 0]
This is current highest consecutiveNumbers: 1
Zero found at index: 1
The following: 4 has been stored.
It is also equal to current maximum sequence of consecutive numbers: 1

****
Longest consecutive sequence: 1
****
100
4

** Process exited - Return Code: 0 **

********** OUTPUT **********

Although in practice the code could have been adjusted to not process all the same items again, I have kept it intact so that flow can be seen.

```
static int []nums = new int[]{1,1,1,1,1,1};
```

Welcome to Online IDE!! Happy Coding :)

This is the number being checked: 1

This is the number being checked: 1

This is the number being checked: 1

This is the number being checked: 1

This is the number being checked: 1

This is the number being checked: 1

Length of store: 6
********These are all entries*********
[1, 0, 0, 0, 0, 0]
[1, 0, 0, 0, 0, 0]
[1, 0, 0, 0, 0, 0]
[1, 0, 0, 0, 0, 0]
[1, 0, 0, 0, 0, 0]
[1, 0, 0, 0, 0, 0]

******NEW NUMBER*****: [1, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 0
Zero found at index: 1
This is current highest streak of consecutiveNumbers: 0
This is newly identified streak of consecutive Numbers: 1
Highest consecutive number sequence so far: 1

******NEW NUMBER*****: [1, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 1
Zero found at index: 1
The following: 1   has been stored.
It is also equal to current maximum sequence of consecutive numbers: 1

******NEW NUMBER*****: [1, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 1
Zero found at index: 1
The following: 1   has been stored.
It is also equal to current maximum sequence of consecutive numbers: 1

******NEW NUMBER*****: [1, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 1
Zero found at index: 1
The following: 1   has been stored.
It is also equal to current maximum sequence of consecutive numbers: 1

******NEW NUMBER*****: [1, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 1
Zero found at index: 1
The following: 1   has been stored.
It is also equal to current maximum sequence of consecutive numbers: 1

******NEW NUMBER*****: [1, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 1

Zero found at index: 1
The following: 1 has been stored.
It is also equal to current maximum sequence of consecutive numbers: 1

****
Longest consecutive sequence: 1
****
1
1
1
1
1
1

** Process exited - Return Code: 0 **

********** OUTPUT **********

Although in practice the code could have been adjusted to not process all the same items again, I have kept it intact so that flow can be seen.

```
//This is the defined set of numbers....
static int []nums = new int[]{100,4,200,1,2,6,7,8,9,100,101,102,103};
```

Welcome to Online IDE!! Happy Coding :)

This is the number being checked: 100
Next consecutive number has appeared: 101
Next consecutive number has appeared: 102
Next consecutive number has appeared: 103

This is the number being checked: 4

This is the number being checked: 200

This is the number being checked: 1
Next consecutive number has appeared: 2

This is the number being checked: 2

This is the number being checked: 6
Next consecutive number has appeared: 7
Next consecutive number has appeared: 8
Next consecutive number has appeared: 9

This is the number being checked: 7
Next consecutive number has appeared: 8

Next consecutive number has appeared: 9

This is the number being checked: 8
Next consecutive number has appeared: 9

This is the number being checked: 9

This is the number being checked: 100
Next consecutive number has appeared: 101
Next consecutive number has appeared: 102
Next consecutive number has appeared: 103

This is the number being checked: 101
Next consecutive number has appeared: 102
Next consecutive number has appeared: 103

This is the number being checked: 102
Next consecutive number has appeared: 103

This is the number being checked: 103

Length of store: 13
********These are all entries*********
[100, 101, 102, 103, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[4, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[200, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[1, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[6, 7, 8, 9, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[7, 8, 9, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[8, 9, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[9, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[100, 101, 102, 103, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[101, 102, 103, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[102, 103, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[103, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

******NEW NUMBER*****: [100, 101, 102, 103, 0, 0, 0, 0, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 0
Zero found at index: 4
This is current highest streak of consecutiveNumbers: 0
This is newly identified streak of consecutive Numbers: 4
Highest consecutive number sequence so far: 100,101,102,103

******NEW NUMBER*****: [4, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 4
Zero found at index: 1

******NEW NUMBER*****: [200, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 4
Zero found at index: 1

******NEW NUMBER*****: [1, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 4
Zero found at index: 2

******NEW NUMBER*****: [2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 4

```
Zero found at index: 1

******NEW NUMBER*****:  [6, 7, 8, 9, 0, 0, 0, 0, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 4
Zero found at index: 4
The following: 6,7,8,9      has been stored.
It is also equal to current maximum sequence of consecutive numbers: 4

******NEW NUMBER*****:  [7, 8, 9, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 4
Zero found at index: 3

******NEW NUMBER*****:  [8, 9, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 4
Zero found at index: 2

******NEW NUMBER*****:  [9, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 4
Zero found at index: 1

******NEW NUMBER*****:  [100, 101, 102, 103, 0, 0, 0, 0, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 4
Zero found at index: 4
The following: 100,101,102,103      has been stored.
It is also equal to current maximum sequence of consecutive numbers: 4

******NEW NUMBER*****:  [101, 102, 103, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 4
Zero found at index: 3

******NEW NUMBER*****:  [102, 103, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 4
Zero found at index: 2

******NEW NUMBER*****:  [103, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
This is current highest consecutiveNumbers: 4
Zero found at index: 1


**************************
Longest consecutive sequence: 4
**************************
100,101,102,103
6,7,8,9
100,101,102,103


** Process exited - Return Code: 0 **
```