Given a list $A$ of $N$ distinct integer numbers, you can sort the list by moving an element to the end of the list. Find the minimum number of moves required to sort the list using this method in ascending order.

**Input Format:**
The first line of the input contains $N$ distinct integers of list $A$ separated by a space.

**Output Format**
Print the minimum number of moves required to sort the elements.

**Example:**

Input:
1 3 2 4 5

Output:
3

**Explanation:**
In the first move, we move 3 to the end of the list. In the second move, we move 4 to the end of the list, and finally, in the third movement, we move 5 to the end.

**Sample Test Cases**

<table>
<thead>
<tr>
<th>Test Case</th>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Case 1</td>
<td>20 3 1 2 6 7 8 21 19 5</td>
<td>8</td>
</tr>
<tr>
<td>Test Case 2</td>
<td>4 1 3 5 6 2 7 9 8</td>
<td>7</td>
</tr>
</tbody>
</table>
The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Sample solutions (Provided by instructor)

```python
arr = [int(x) for x in input().split()]
arr1 = sorted(arr)

for i in range(len(arr)):
    if arr[i] == arr1[count]:
        count+=1

print(len(arr)-count)
```

<table>
<thead>
<tr>
<th>Test Case</th>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1 2 3 4 5 6 7 8 9 15 14 13 12 11 10</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>1 2 3 4 5</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>1 3 5 2 6</td>
<td>3</td>
</tr>
<tr>
<td>6</td>
<td>5 1 3 2 7</td>
<td>3</td>
</tr>
</tbody>
</table>
- Week 6
- Week 7
- Week 8

questions
game 04 (unit?
unit=84&lesson=98)

- Sorting and
  Searching : 20
  questions
game 05 (unit?
unit=84&lesson=99)

- Sorting and
  Searching : 20
  questions
game 06 (unit?
unit=84&lesson=100)

- Sorting and
  Searching : 20
  questions
game 07 (unit?
unit=84&lesson=101)

- Sorting and
  Searching : 20
  questions
game 08 (unit?
unit=84&lesson=102)

- Quiz :
  Assignment 5
  (assessment?
name=264)

- Programming
  Assignment-1:  
  Cab and walk
  (/noc20_cs35/progassignment?
name=291)

- **Programming
  Assignment-2: End-Sort**
  (/noc20_cs35/progassignment?
name=292)

- Programming
  Assignment-3:  
  Semi Primes
  (/noc20_cs35/progassignment?
nname=293)

- Week 5
  Feedback
  (unit?
unit=84&lesson=294)