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[NPTEL \(https://swayam.gov.in/explorer?ncCode=NPTEL\)](https://swayam.gov.in/explorer?ncCode=NPTEL) » [The Joy of Computing using Python \(course\)](#)
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## Course outline

### How does an NPTEL online course work?

#### Week 0

#### Week 1

#### Week 2

#### Week 3

#### week 4

#### Week 5

- Introduction to Dictionaries (unit? unit=84&lesson=85)
- Speech to Text : No need to write 01 (unit? unit=84&lesson=86)
- Speech to Text : No need to write 02 (unit? unit=84&lesson=87)

## Programming Assignment-2: End-Sort

**Due on 2020-03-05, 23:59 IST**

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

	Input	Output
Test Case 1	20 3 1 2 6 7 8 21 19 5	8
Test Case 2	4 1 3 5 6 2 7 9 8	7

- Speech to Text : No need to write 03 (unit? unit=84&lesson=88)
- Monte Hall : 3 doors and a twist 01 (unit? unit=84&lesson=89)
- Monte Hall : 3 doors and a twist 02 (unit? unit=84&lesson=90)
- Rock, Paper and Scissor : Cheating not allowed !! 01 (unit? unit=84&lesson=91)
- Rock, Paper and Scissor : Cheating not allowed !! 02 (unit? unit=84&lesson=92)
- Rock, Paper and Scissor : Cheating not allowed !! 03 (unit? unit=84&lesson=93)
- Rock, Paper and Scissor : Cheating not allowed !! 04 (unit? unit=84&lesson=94)
- Sorting and Searching : 20 questions game 01 (unit? unit=84&lesson=95)
- Sorting and Searching : 20 questions game 02 (unit? unit=84&lesson=96)
- Sorting and Searching : 20 questions game 03 (unit? unit=84&lesson=97)
- Sorting and Searching : 20

Test Case 3	1 2 3 4 5 6 7 8 9 15 14 13 12 11 10	5
Test Case 4	1 2 3 4 5	0
Test Case 5	1 3 5 2 6	3
Test Case 6	5 1 3 2 7	3

The due date for submitting this assignment has passed.  
As per our records you have not submitted this assignment.  
Sample solutions (Provided by instructor)

```

1  """
2
3  @author: descentis
4  http://sccilabs.org/amit_verma.html
5  """
6
7  arr = [int(x) for x in input().split()]
8  arr1 = sorted(arr)
9  count = 0
10 for i in range(len(arr)):
11     if arr[i] == arr1[count]:
12         count+=1
13 print(len(arr)-count)

```

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?  
name=293)

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

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**Week 6**

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**Week 7**

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**Week 8**

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**Week 9**

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**Week 10**

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**Week 11**

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**Week 12**

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