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DAY   HRS   MIN   SEC

June Circuits '20

LIVE

Jun 20, 2020, 09:30 PM IST - Jun 27, 2020, 09:30 PM IST

INSTRUCTIONS   **PROBLEMS**   **SUBMISSIONS**   **LEADERBOARD**   **ANALYTICS**   **JUDGE**

← Problems / Bubble Sort

Bubble Sort

Max. score: 100

You are given arrays $a_1, a_2, \ldots, a_n$. What will return the next function $Bubble\ Sort\ (A)$ in the next picture.
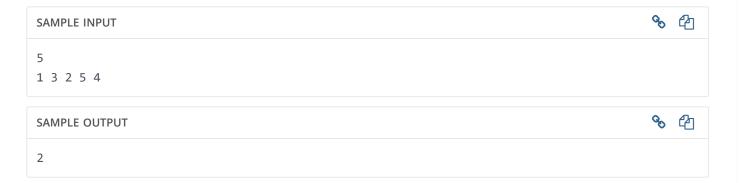
Link to the image: https://ibb.co/vzFR5kr

Input format

- The first line contains the integer N ($1 \leqslant N \leqslant 5000$) denoting the number of elements of array A.
- The second line contains N positive integers ($1 \leqslant A_i \leqslant N$) denoting the elements of the array.
  Note: It is guaranteed that all elements of array A are different.

Output format

Print an integer that denotes the answer to the question.

SAMPLE INPUT
5 1 3 2 5 4

SAMPLE OUTPUT
2

Explanation

Answer is 2 (to verify this, you can simply implement this procedure)

Time Limit:	1.0 sec(s) for each input file.
Memory Limit:	256 MB
Source Limit:	1024 KB
Marking Scheme:	Score is assigned if any testcase passes.

Allowed Languages: Bash, C, C++, C++14, C++17, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, Java 14, JavaScript(Rhino), JavaScript(Node.js), Julia, Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, Python 3.8, Racket, Ruby, Rust, Scala, Swift-4.1, Swift, TypeScript, Visual Basic

CODE EDITOR

Save   Python 3.8 (python 3.8.2)   ∨

```
1    '''
2    # Sample code to perform I/O:
3
4    name = input()                  # Reading input from STDIN
5    print('Hi, %s.' % name)         # Writing output to STDOUT
6
7    # Warning: Printing unwanted or ill-formatted data to output will cause the test
     cases to fail
8    '''
9
10   # Write your code here
11   def BubbleSort(N,A):
12       count=0
13       for i in range(N-1,0,-1):
14           for j in range(i):
15               if A[j]>A[j+1]:
16                   tmp=A[j]
17                   A[j]=A[j+1]
18                   A[j+1]=tmp
19                   count+=1
20       print((len(A)-1)-count)
21
22   if __name__=="__main__":
23       N=int(input())
24       A=list(map(int,input().strip().split()))
25       BubbleSort(N,A)
```

1:1 vscode

▼ Provide custom input

COMPILE & TEST   SUBMIT

✎ **Tip:** You can submit any number of times you want. Your best submission is considered for computing total score.

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7

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