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Dashboard > Functional Programming > Introduction > List Length   **Badge Progress** ⭐ ⭐   **Points: 210.00 Rank: 2784**

List Length 🔖

👤 by **idlecool**

Problem	Submissions	Leaderboard	Discussions

Count the number of elements in an array without using *count, size* or *length* operators (or their equivalents). The input and output portions will be handled automatically by the grader. You only need to write a function with the recommended method signature.

Input Format

A list of N integers, each on a separate line.

Output Format

Output a single integer N, the length of the list that was provided as input.

Sample Input

```
2
5
1
4
3
7
8
6
0
9
```

Sample Output

```
10
```

Constraints

$0 <= N <= 100$
Each element, X, in the list: $0 <= X <= 100$

Recommended Method Signature

```
Number Of Parameters: 1
Parameters: [list]
Returns: Number
```

For Hackers Using Clojure

This will be the outline of your function body (fill in the blank portion marked by underscores):

```
(fn[lst]_____)
```

For Hackers Using Scala

This will be the outline of your function body (fill in the blank portion marked by underscores):

```
def f(arr:List[Int]):Int = _____
```

For Hackers Using Haskell

This will be the outline of your function body (fill in the blank portion marked by underscores):

```
len lst = _____
```

For Hackers Using other Languages

You have to read input from standard input and write output to standard output. Please follow the input/output format mentioned above.

NOTE: You only need to submit the code above after filling in the blanks appropriately. The input and output section will be handled by us. The focus is on writing the

correct function.

f ✆ in

Submissions: 9540
Max Score: 10
Difficulty: Easy

Rate This Challenge:
☆ ☆ ☆ ☆ ☆

More

If you cannot find your favorite language here, please check out the algorithm domain. We support over 40 popular languages.

Current Buffer (saved locally, editable) ⑂ ⟳   Racket ⌄   ⤢ ⚙

```racket
1  #lang racket
2  ; Enter your code here. Read input from STDIN. Print output to STDOUT
3  (define (print-list list)
4    (if (= (length list) 1) (displayln (car list)) (begin (displayln (car list)) (print-list (cdr list)))))
5
6  ; we don't use this because we read and print them in different order
7  (define (list-length list)
8    (if (eq? list '()) 0 (+ 1 (list-length (cdr list)))))
9
10 (define (main list)
11   (let ((x (read)))
12     (if (eof-object? x) (displayln (list-length list)) (main (cons x list)))))
13
14 (main '())
```

Line: 1 Col: 1

⬆ Upload Code as File   ☐ **Test against custom input**   Run Code   Submit Code

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