

PRACTICE

COMPETE

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Practice > Python > Collections > Collections.deque()

Collections.deque() ☆

94/115 challenges solved Rank: 2308 | Points: 1875 (1)

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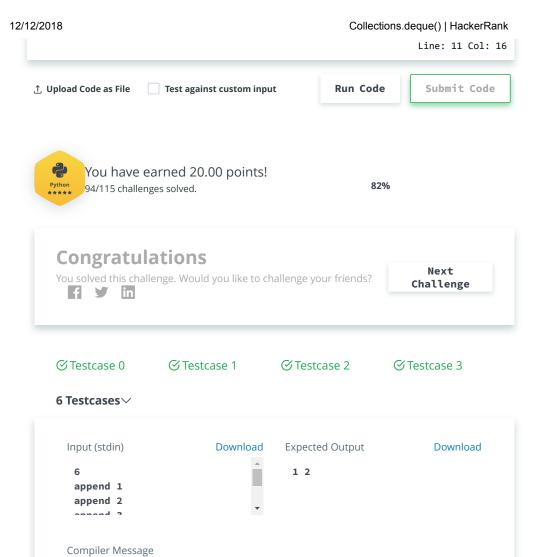
Problem	Submissions	Leaderboard	Discussions	Editorial 合	
collections.de	que()				Author Difficulty
A <i>deque</i> is a double-ended queue. It can be used to add or remove elements from both ends.					Max Score
					Submitted By
	_		rom either side of the de	que with	Submitted by
approximately the same $O(1)$ performance in either direction.					NEED HELP?
Click on the link to learn more about deque() methods .					View discussions
Click on the link to learn more about various approaches to working with deques: Deque Recipes .					
Example					View editorial
Code					▼ View top submissions
					RATE THIS CHALLENGE
>>> from coll	ections import dequ	e			\(\dagger \(\dagger \) \(\dagger \(\dagger \) \(\dagger \) \(\dagger \)
>>> d = deque	·				M M M M M
>>> d.append(1)				MORE DETAILS
>>> print d					WOKE BETALES
<pre>deque([1])</pre>					
>>> d.appendl	eft(2)				
>>> print d					
<pre>deque([2, 1]) >>> d.clear()</pre>					Suggest Edits
>>> print d					Suggest cuits
deque([])					f y in
>>> d.extend('1')				J m
>>> print d					
deque(['1'])					
>>> d.extendl	eft('234')				
>>> print d	21 121 1413)				
>>> d.count('	3', '2', '1'])				
1	1)				
>>> d.pop()					
'1'					
>>> print d					
deque(['4', '					
>>> d.popleft	()				
'4'					
>>> print d deque(['3', '	217)				
>>> d.extend(
>>> print d	. 555 /				
	2', '7', '8', '9',	'6'])			

Author	DOSHI				
Difficulty	Easy				
Max Score	20				
Submitted By	10648				
NEED HELP?					
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公公公公公					
MORE DETAILS					
→ Download sample test cases					
Suggest Edits					
F y in					

>>> d.remove('2')

```
>>> print d
  deque(['3', '7', '8', '9', '6'])
  >>> d.reverse()
  >>> print d
  deque(['6', '9', '8', '7', '3'])
  >>> d.rotate(3)
  >>> print d
  deque(['8', '7', '3', '6', '9'])
Task
Perform append, pop, popleft and appendleft methods on an empty deque oldsymbol{d}.
Input Format
The first line contains an integer N, the number of operations.
The next N lines contains the space separated names of methods and their values.
Constraints
0 < N \le 100
Output Format
Print the space separated elements of deque d.
Sample Input
  6
  append 1
  append 2
  append 3
  appendleft 4
  gog
  popleft
Sample Output
  1 2
```

```
K Z SS
                                           Python 3
Current Buffer (saved locally, editable) ゅって
 1 from collections import deque
 2 n=int(input())
 3 #l=[input() for i in range(n)]
 4 d=deque()
 5 ▼ for i in range(n):
      s=input()
 6
 7 ▼
      if("appendleft" in s):
 8
        t=int(s[11:])
 9
        d.appendleft(t)
10 ▼ elif("popleft" in s):
11
        d.popleft()
12 ▼ elif("append" in s):
13
        t=int(s[7:])
14
         d.append(t)
15 ▼
      elif("pop" in s):
16
         d.pop()
17
    print(*d)
```



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