H PRACTICE COMPETE JOBS LEADERBOARD

Search 🗨 🔔 👤 punnammani1 ⌄

Practice > Python > Collections > Collections.deque()

Collections.deque() ☆

94/115 **challenges solved**

Rank: **2308** | Points: **1875** ⚠

Your Collections.deque() submission got 20.00 points. Share Tweet ✕

Try the next challenge | **Try a Random Challenge**

Problem | Submissions | Leaderboard | Discussions | Editorial 🔒

collections.deque()

A *deque* is a double-ended queue. It can be used to add or remove elements from both ends.

Deques support thread safe, memory efficient appends and pops from either side of the deque with approximately the same $O(1)$ performance in either direction.

Click on the link to learn more about **deque() methods**.

Click on the link to learn more about various approaches to working with deques: **Deque Recipes**.

Example

Code

```
>>> from collections import deque
>>> d = deque()
>>> d.append(1)
>>> print d
deque([1])
>>> d.appendleft(2)
>>> print d
deque([2, 1])
>>> d.clear()
>>> print d
deque([])
>>> d.extend('1')
>>> print d
deque(['1'])
>>> d.extendleft('234')
>>> print d
deque(['4', '3', '2', '1'])
>>> d.count('1')
1
>>> d.pop()
'1'
>>> print d
deque(['4', '3', '2'])
>>> d.popleft()
'4'
>>> print d
deque(['3', '2'])
>>> d.extend('7896')
>>> print d
deque(['3', '2', '7', '8', '9', '6'])
>>> d.remove('2')
```

Author	DOSHI
Difficulty	Easy
Max Score	20
Submitted By	10648

NEED HELP?

🗨 **View discussions**

📖 **View editorial**

🏆 **View top submissions**

RATE THIS CHALLENGE

☆ ☆ ☆ ☆ ☆

MORE DETAILS

⬇ **Download problem statement**

⬇ **Download sample test cases**

✎ **Suggest Edits**

f 🐦 in

```
>>> 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 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

$0 < N \leq 100$

Output Format

Print the space separated elements of deque d.

Sample Input

```
6
append 1
append 2
append 3
appendleft 4
pop
popleft
```

Sample Output

```
1 2
```

Current Buffer (saved locally, editable)   ⌄ 🕐   Python 3   ⌄   ⤢ ⚙

```python
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):
6       s=input()
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)
```

Line: 11 Col: 16

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

You have earned 20.00 points!
94/115 challenges solved.   **82%**

Congratulations

You solved this challenge. Would you like to challenge your friends?   **Next Challenge**

f 🐦 in

✓ Testcase 0   ✓ Testcase 1   ✓ Testcase 2   ✓ Testcase 3

6 Testcases ⌄

Input (stdin)	Download	Expected Output	Download

6
append 1
append 2
append 3

1 2

Compiler Message

Success

Contest Calendar | Blog | Scoring | Environment | FAQ | About Us | Support | Careers | Terms Of Service | Privacy Policy | Request a Feature