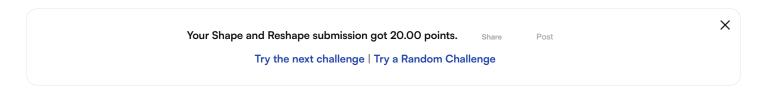
Shape and Reshape *





Problem Submissions Leaderboard Editorial 🛆

shape

The shape tool gives a tuple of array dimensions and can be used to change the dimensions of an array.

(a). Using shape to get array dimensions

```
import numpy

my__1D_array = numpy.array([1, 2, 3, 4, 5])
print my_1D_array.shape #(5,) -> 1 row and 5 columns

my__2D_array = numpy.array([[1, 2],[3, 4],[6,5]])
print my_2D_array.shape #(3, 2) -> 3 rows and 2 columns
```

(b). Using shape to change array dimensions

```
import numpy
change_array = numpy.array([1,2,3,4,5,6])
change_array.shape = (3, 2)
print change_array

#Output
[[1 2]
[3 4]
[5 6]]
```

reshape

The reshape tool gives a new shape to an array without changing its data. It creates a new array and does not modify the original array itself.

```
import numpy

my_array = numpy.array([1,2,3,4,5,6])
print numpy.reshape(my_array,(3,2))

#Output
[[1 2]
[3 4]
[5 6]]
```

Task

You are given a space separated list of nine integers. Your task is to convert this list into a 3X3 NumPy array.

Input Format

A single line of input containing ${\bf 9}$ space separated integers.

Output Format

```
Print the 3X3 NumPy array.
```

Sample Input

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

Sample Output

```
[[1 2 3]
[4 5 6]
[7 8 9]]
```

```
import numpy

lst = list(map(int, input().split()))

a = numpy.array(lst)

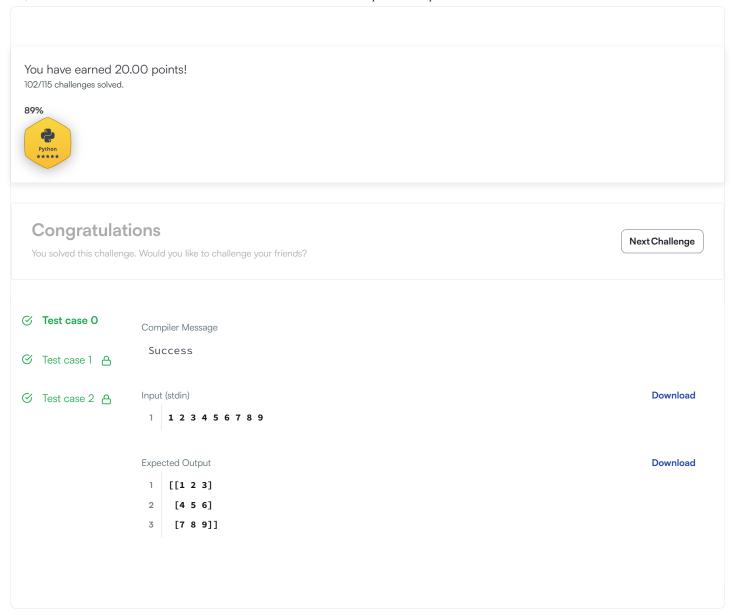
a = numpy.reshape(a, (3,3))

print(a)

8

9
```

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