

Shape and Reshape ★

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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 **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]]
```

Author

[deleted]

Difficulty

Easy

Max Score

20

Submitted By

59098

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Change Theme Language Python 3

```
1 import numpy
2 a=numpy.array(list(map(int,input().split())))
3 print(numpy.reshape(a,(3,3)))
```

Line: 3 Col: 30

[Upload Code as File](#) ☐ Test against custom input

Run Code

Submit Code

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

✔ Sample Test case 0

Input (stdin)

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

Your Output (stdout)

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

Expected Output

Download

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