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]

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

[5 6]]

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

Output Format

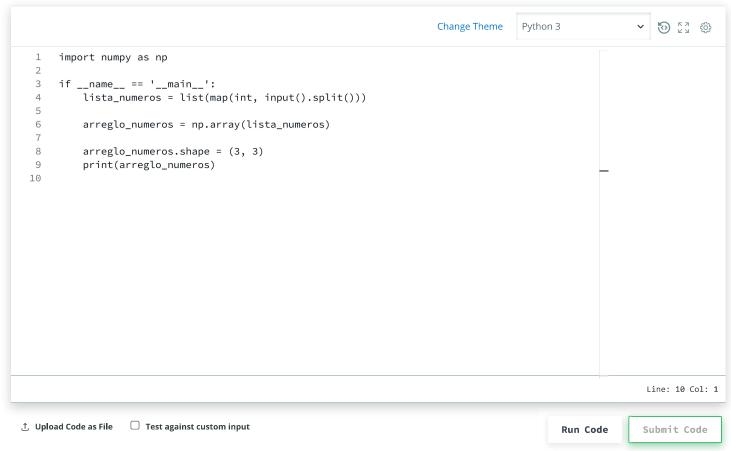
```
Print the 3x3 NumPy array.

Sample Input

1 2 3 4 5 6 7 8 9

Sample Output

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



Compilation Successful:)

Click the Submit Code button to run your code against all the test cases.

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