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Shape and Reshape 🖈



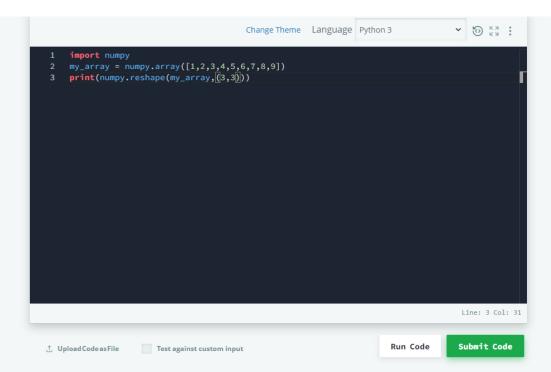
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shape The shape tool gives a tuple of array dimensions and can be used to change the dimensions of an array.
a). Using shape to get array dimensions
<pre>import numpy my1D_array = numpy.array([1, 2, 3, 4, 5]) print my_1D_array.shape #(5,) -> 1 row and 5 columns my2D_array = numpy.array([[1, 2],[3, 4],[6,5]]) print my_2D_array.shape #(3, 2) -> 3 rows and 2 columns</pre>
b). Using shape to change array dimensions
<pre>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]]</pre>
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.
<pre>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]]</pre>
Task
/ou are given a space separated list of nine integers. Your task is to convert this list into a 3 X 3 NumPy array.
nput Format
A single line of input containing $oldsymbol{9}$ space separated integers.
Output Format
Print the 3 X 3 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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