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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

import numpy

my__1D_array = numpy.array([1, 2, 3, 4, 5]) print my_1D_array.shape $\#(5,) \rightarrow 5$ rows and 0 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]]

Author	DOSH
Difficulty	Easy
Max Score	20
Submitted By	15781
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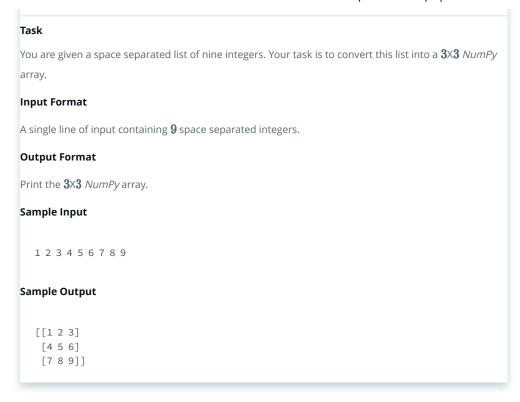
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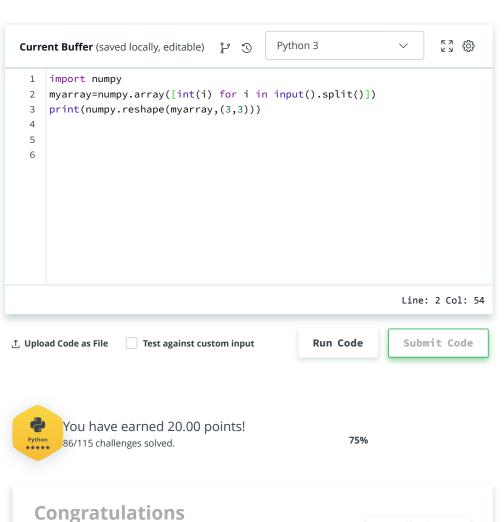
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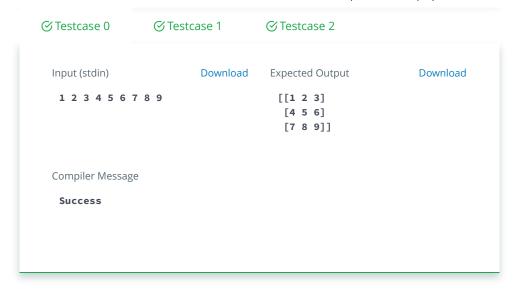
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