



Zeros and Ones ★

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Problem

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zeros

The zeros tool returns a new array with a given shape and type filled with **0**'s.

```
import numpy

print numpy.zeros((1,2))           #Default type is float
#Output : [[ 0.  0.]]

print numpy.zeros((1,2), dtype = numpy.int) #Type changes to int
#Output : [[0 0]]
```

ones

The ones tool returns a new array with a given shape and type filled with **1**'s.

```
import numpy

print numpy.ones((1,2))           #Default type is float
#Output : [[ 1.  1.]]

print numpy.ones((1,2), dtype = numpy.int) #Type changes to int
#Output : [[1 1]]
```

Task

You are given the shape of the array in the form of space-separated integers, each integer representing the size of different dimensions, your task is to print an array of the given shape and integer type using the tools `numpy.zeros` and `numpy.ones`.

Input Format

A single line containing the space-separated integers.

Constraints

$1 \leq \text{each integer} \leq 3$

Output Format

First, print the array using the `numpy.zeros` tool and then print the array with the `numpy.ones` tool.

Sample Input 0

```
3 3 3
```

Sample Output 0

```
[[[0 0 0]
  [0 0 0]]
```



```
[0 0 0]]

[[0 0 0]
 [0 0 0]
 [0 0 0]]

[[0 0 0]
 [0 0 0]
 [0 0 0]]]
[[[1 1 1]
  [1 1 1]
  [1 1 1]]

 [[1 1 1]
  [1 1 1]
  [1 1 1]]]

[[[1 1 1]
  [1 1 1]
  [1 1 1]]]
```

Explanation 0

Print the array built using `numpy.zeros` and `numpy.ones` tools and you get the result as shown.

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Python 3



```
1 import numpy
2
3 array = tuple(map(int, input().split()))
4
5 zeros = numpy.zeros(array, int)
6 ones = numpy.ones(array, int)
7
8 print(zeros)
9 print(ones)
10
```

Line: 5 Col: 32

☒ Upload Code as File ☐ Test against custom input**Run Code****Submit Code**

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67/115 challenges solved.

58%





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Test case 0

Test case 1

Test case 2

Test case 3

Compiler Message

Success

Input (stdin)

1 3 3 3

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Expected Output

1 [[0 0 0]
2 [0 0 0]
3 [0 0 0]]
4
5 [[0 0 0]
6 [0 0 0]

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