

Zeros and Ones

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

Your task is to print an array of size N and integer type using the tools *zeros* and *ones*. N is the space separated list of the dimensions of the array.

Input Format

A single line containing the space separated list of N .

Output Format

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

Sample Input

```
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]]]
[[[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]]]