Eye and Identity ★



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identity

The identity tool returns an identity array. An identity array is a square matrix with all the main diagonal elements as **1** and the rest as **0**. The default type of elements is float.

```
import numpy
print numpy.identity(3) #3 is for dimension 3 X 3

#Output
[[ 1.  0.  0.]
  [ 0.  1.  0.]
  [ 0.  0.  1.]]
```

eye

The eye tool returns a 2-D array with **1**'s as the diagonal and **0**'s elsewhere. The diagonal can be main, upper or lower depending on the optional parameter **k**. A positive **k** is for the upper diagonal, a negative **k** is for the lower, and a **0 k** (default) is for the main diagonal.

Task

Your task is to print an array of size $N \times M$ with its main diagonal elements as 1's and 0's everywhere else.

Note

In order to get alignment correct, please insert the line numpy.set_printoptions(legacy='1.13') below the numpy import.

Input Format

A single line containing the space separated values of $oldsymbol{N}$ and $oldsymbol{M}.$

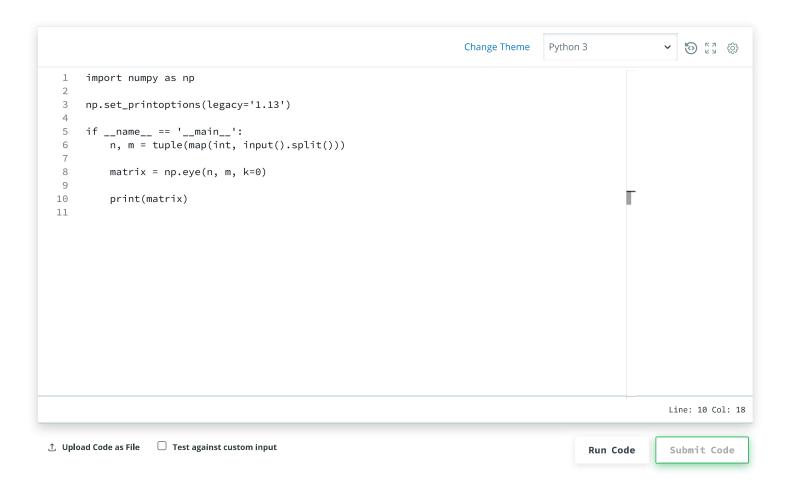
 ${m N}$ denotes the rows.

 $m{M}$ denotes the columns.

Output Format

Print the desired $m{N} m{ imes} m{M}$ array.





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