

Coding Arena

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[Rules & Regulations](#)[Launch Code Editor](#)**Problem : Logic Pyramid**

Identify the logic behind the series

6 28 66 120 190 276....

The numbers in the series should be used to create a Pyramid. The base of the Pyramid will be the widest and will start converging towards the top where there will only be one element. Each successive layer will have one number less than that on the layer below it. The width of the Pyramid is specified by an input parameter N. In other words there will be N numbers on the bottom layer of the pyramid.

The Pyramid construction rules are as follows

1. First number in the series should be at the top of the Pyramid
2. Last N number of the series should be on the bottom-most layer of the Pyramid, with Nth number being the right-most number of this layer.
3. Numbers less than 5-digits must be padded with zeroes to maintain the sanctity of a Pyramid when printed.
Have a look at the examples below to get a pictorial understanding of what this rule actually means.

Example

If input is 2, output will be

```
00006
00028 00066
```

If input is 3, output will be

```
00006
00028 00066
00120 00190 00276
```

Formal input and output specifications are stated below

Input Format:

First line of input will contain number N that corresponds to the width of the bottom-most layer of the Pyramid

Output Format:

The Pyramid constructed out of numbers in the series as per stated construction rules

Constraints:

1. $0 < N \leq 14$

Sample Input and Output

| SNo. | Input | Output |
|------|-------|--|
| 1 | 2 | <pre>00006 00028 00066</pre> |
| 2 | 3 | <pre>00006 00028 00066 00120 00190 00276</pre> |

Note:

Please do not use package and namespace in your code. For object oriented languages your code should be written in one class.

Note:

Participants submitting solutions in C language should not use functions from <conio.h> / <process.h> as these files do not exist in gcc

Note:

For C and C++, return type of main() function should be int.

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