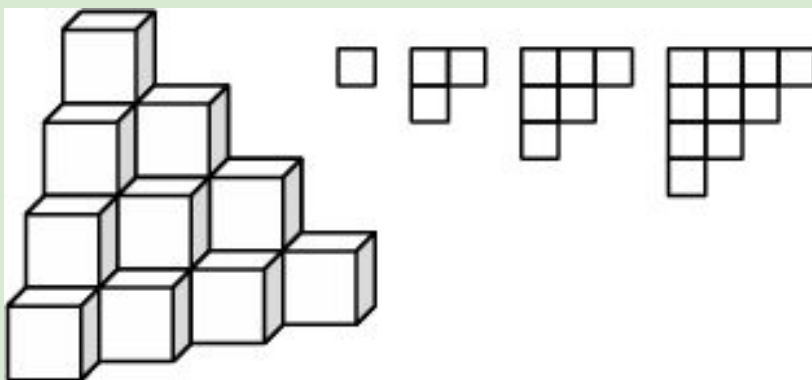




### Algorithmic task for "ScratchChild" (9-10 years old)

## Pyramid

John built a pyramid using cubes similar to the one in the picture. At the top level of the pyramid there is one cube, at the second top level - 3 cubes in the form of a triangle, at the third top level - 6 cubes in the form of a triangle, and so on. Total height of the pyramid is  $N$  cubes. The picture shows the pyramid of height 4 and all its levels are drawn. Overall pyramid of height 4 consists of  $1+3+6+10=20$  cubes.



Write a program that determines the number of cubes in the pyramid by the given height  $N$ .

#### Example:

Input data	Output data
<b>4</b>	<b>20</b>
<b>2</b>	<b>4</b>