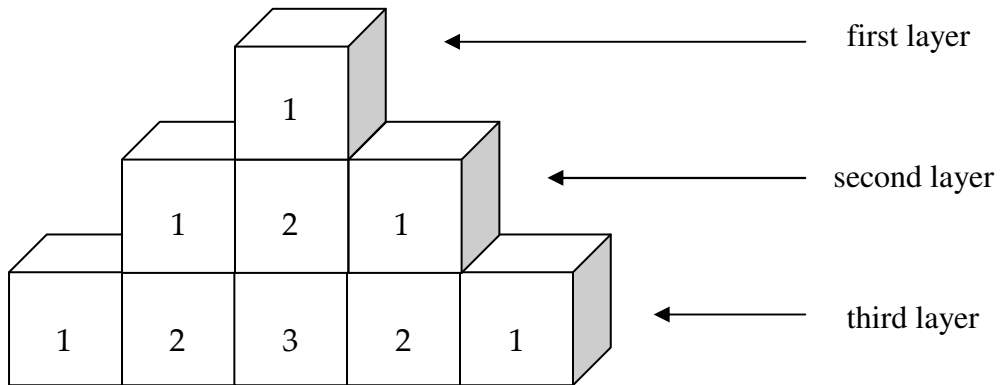


Written Test

Sample (6) Answer

The number blocks are arranged as follows:



The sum of the numbers on the second layer is $1 + 2 + 1 = 4$. It is given that more layers will be arranged in a similar way.

(a) What is the sum of the numbers shown on the blocks on the 12th layer ?

Answer : The sum is 144.

(b) What is the sum of the numbers shown on the blocks on the 2009th layer ?

Answer : The sum is 4,036,081 (or 2009^2).