TP\_CSF\_Methods\_RecursiveMethod

Reads an int *n* and writes out the sum of all the natural numbers which are less than or equal to *n*.

Input

There is a single int *n* on the first line where *n ≥ 0*.

Output

There is a single int *m* on the first line where *m = 0 + 1 + 2 + … + n*.

Examples

|  |  |
| --- | --- |
| Input | Output |
| 10 | 55 |
| 5 | 15 |
| 1 | 1 |