TP\_CSF\_Loops\_For

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

Input

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

Output

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

Examples

|  |  |
| --- | --- |
| Input | Output |
| 5 | 15 |
| 99 | 4950 |
| 0 | 0 |