TP\_CSF\_Classes\_PublicStaticFields

Reads an int *n*, writes out *n* and 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 *n* on the first line.

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

Examples

|  |  |
| --- | --- |
| Input | Output |
| 5 | 5  15 |
| 10 | 10  55 |
| 100 | 100  5050 |