

Triangular Numbers

Problem ID: a04p04triangularnumbers

The i -th **triangular number** is the sum of the integers from 1 to i , inclusive. Write a program that, given an integer n , prints the first n triangular numbers.

Input

Input consists of one line containing the integer n , where $0 \leq n \leq 1\,000$.

Output

Output consists of n lines, where the i -th line contains the i -th triangular number.

Sample Input 1

| | |
|---|---|
| 1 | 1 |
|---|---|

Sample Output 1

Sample Input 2

| | |
|---|-------------------------|
| 5 | 1 3 6 10 15 |
|---|-------------------------|

Sample Output 2

Sample Input 3

| | |
|---|---|
| 8 | 1 3 6 10 15 21 28 36 |
|---|---|

Sample Output 3

Sample Input 4

| | |
|---|--|
| 0 | |
|---|--|

Sample Output 4

Sample Input 5

| | |
|----|---|
| 15 | 1 3 6 10 15 21 28 36 45 55 66 78 91 105 120 |
|----|---|

Sample Output 5