## Problem B - Consecutive Integers

Any positive integer can be written as the sum of several consecutive integers. For example,

$$
15=1+\ldots+5=4+\ldots+6=7+\ldots+8=15+\ldots+15
$$

Given a positive integer $n$, what are the consecutive positive integers with sum being $n$ ? If there are multiple solutions, which one consists of more numbers?

## Input

Input consists of multiple problem instances. Each instance consists of a single positive integer $n$, where $n \leq 10^{9}$. The input data is terminated by a line containing -1 . There will be at most 1000 test cases.

## Output

For each input integer $n$, print out the desired solution with the format:
$N=A+\ldots+B$
in a single line.
(Read sample output for a clearer representation of the exact formatting.)

## Sample Input

8
15
35
-1

## Sample Output

```
8 = 8 + ... + 8
15 = 1 + ... + 5
35 = 2 + ... + 8
```

