



## Problem of the Week

### Problem C

#### 1000 is SUM Number!

Did you know that 1000 can be written as the sum of 16 consecutive integers?

That is,

$$1000 = 55 + 56 + 57 + 58 + 59 + 60 + 61 + 62 + 63 + 64 + 65 + 66 + 67 + 68 + 69 + 70$$

The notation below illustrates a mathematical short form used for writing the above sum. The notation is called *Sigma Notation*.

$$\sum_{i=55}^{70} i = 1000$$

Using at least two integers, what is the minimum number of consecutive integers that sum to exactly 1000?