



## Problem of the Week

### Problem C

### Filtering Up

In the following grid, a number in any square above the bottom row is obtained by adding the numbers connected to it from the row below. For example, the 5 in the second last row is obtained by adding the numbers connected to it in the row below, 2 and 3. The numbers filter up until reaching the final square containing  $2x$ . That is, the number in the top square is two times the unknown number in the bottom row.

Determine the value of  $x$ .

