# Problem of the Week Problem C <br> Teacher Road Trip 1 

To help pass time on a long bus ride, 35 math teachers created a sequence of numbers, with each teacher saying one term in the sequence. The first teacher said the number 2 , the second teacher said the number 8, and every teacher after that said the sum of the two previous terms. Thus,

- the third teacher said the sum of the first and second terms, which is $2+8=10$, and
- the fourth teacher said the sum of the second and third terms, which is $8+10=18$.

Once the final teacher said their number, the $25^{\text {th }}$ teacher announced they had made a mistake and their number should have been one more than what they had said. How much larger should the final teacher's number have been?


Themes Algebra, Number Sense

