

## PROBLEM OF THE MONTH, MARCH 2018

**Problem.** A postal worker delivers mail to the twenty houses on a street block.

The mailman notices that no two adjacent houses ever get mail on the same day but out of any three consecutive houses at least one gets some mail in any given day.

How many different daily patterns of mail delivery are possible?

Submit your solutions to professor Dan Ismailescu, Mathematics Department via email at [dan.p.ismailescu@hofstra.edu](mailto:dan.p.ismailescu@hofstra.edu), or bring it in person at 103C Roosevelt Hall.