



## Problem of the Week

### Problem A

### Birthday Mode

Jaylen and Julia are in different classes at school. They both take a survey of the birth month of their classmates. They record each birthday month as a number, with January = 1, February = 2, March = 3, and so on.

Here are their two data sets:

Jaylen: 4, 5, 4, 8, 9, 3, 5, 6, 3, 4, 11, 6, 5, 12, 10, 12, 3, 1, 2

Julia: 12, 3, 4, 3, 5, 7, 8, 3, 6, 4, 11, 11, 6, 5, 3, 9, 10, 10, 9, 3, 5

A new student comes into the school and joins one of their classes. After adding the new student's birthday information to the survey results, Jaylen and Julia notice that the modes of the two data sets are the same. (The mode of a data set is the value that appears most often.)

In what month was the new student born, and whose class did they enter?

