



## Problem of the Week

### Problem C

#### Arranging Tiles 1

Ana has nine tiles, each with a different integer from 1 to 9 on it. Ana creates larger numbers by placing tiles side by side. For example, using the tiles 3 and 7, Ana can create the 2-digit number 37 or 73.



Using six of her tiles, Ana forms two 3-digit numbers that add to 1000. What is the largest possible 3-digit number that she could have used?

$$\begin{array}{r} \square \square \square \\ + \square \square \square \\ \hline 1000 \end{array}$$