Problem of the Week
Problem E
Secret Numbers

Wakana, Yousef, and Zora are each given a card with a positive integer on it. They cannot see each other's cards, but are told that the sum of their three numbers is 14. They then make the following observations.

- Wakana says "I know that Yousef and Zora have different numbers."

- Yousef then says "I already knew that all three numbers were different."

- Zora then says "I now know what all three of the numbers are."

What number does each person have?