



Problem of the Week

Problem B

Smoothie Choices

Justin and his siblings make smoothies every morning. Their smoothie recipe uses 3 cups of fruit. Sometimes they use only one type of fruit and sometimes they use more than one type of fruit, but they always use exactly 1, 2, or 3 cups of each fruit.

Smoothies taste different when they change the amounts of each fruit. For example, a smoothie with 2 cups of mango and 1 cup of blueberries is different than a smoothie with 1 cup of mango and 2 cups of blueberries.

- (a) If they have only strawberries and bananas, how many different smoothies can they make?
- (b) If they have strawberries, bananas, and raspberries, how many different smoothies can they make?
- (c) If they have strawberries, bananas, raspberries, and peaches, how many different smoothies can they make?

