



Problem of the Week

Problem B

Ask the Banker

Vesna is the banker in a board game that uses \$1, \$10, and \$100 bills.

- (a) Vesna needs to give a player \$2163. How can you do this using the fewest total number of bills? How can you do this using the greatest total number of bills?
- (b) Is it possible to give a player \$254 using exactly 20 bills in total? How about using exactly 30 bills in total? If so, show how it's possible. If not, explain why it's not possible.

EXTENSION: Vesna likes when she can give a player the same number of each type of bill. For which total amounts of money is this possible? Explain.

