



Problem of the Week

Problem B

Book Club

In Emil's book club, each of the 10 members rates each book they read on a scale from 1 to 5. Emil wants to write a program to calculate the average rating for a book.

- (a) Complete the given flowchart to show the steps Emil's program needs to follow to calculate the average (mean) rating for a book.
- (b) Emil finds that sometimes people make mistakes when typing their ratings. Modify your flowchart so that if a rating is not between 1 and 5, users have to input the 10 ratings again.
- (c) Modify your flowchart from part (b) so that if the average rating is over 4, a message is displayed that says the book is excellent.
- (d) What is the lowest possible rating that one of the book club members could give a book that could still result in a message saying the book is excellent?

