

<u>Course</u> > <u>2: How to Design Data</u> > <u>HtDF with Interval</u> > Questions 1-3 **Questions 1-3** Note: please keep <u>aisle-starter.rkt</u> file open, so you can refer to it while answering the following questions. Question 1 1 point possible (graded) Consider the test: (check-expect (aisle? 10) false) We did not add it to aisle? function design because: The value this test produces is incorrect. This test is redundant. The value passed to aisle? by this test is not of type SeatNum. We forgot about it. Explanation It's sufficient to test only 1 midpoint in the SeatNum interval for the aisle? function, since for all seats exclusively between 1 and 32, aisle? produces false. Submit • Answers are displayed within the problem Question 2 1 point possible (graded) Now consider this other test: (check-expect (aisle? 33) false) We did not add it to aisle? function design because: The value this test produces is incorrect. This test is redundant. 🧿 The value passed to <code>aisle?</code> by this test is not of type <code>SeatNum</code>. 🗸 We forgot about it. Explanation According to the signature, aisle? consumes SeatNum, and SeatNum is a natural number between 1 and 32.

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1 Answers are displayed within the problem

Question 3

1 point possible (graded)

Suppose you are asked to design another function called middle? that produces true if the seat is anywhere in the middle of the row (i.e not on the aisle seats). Since this function resembles aisle?, you would like to use some of it:

To design the function middle?, which of the following would be the same as in the aisle? function design (check all that apply)?

- The signature
- The purpose
- The value produced by the stub
- ☑ The template used
 ✓
- ▼ The number of check-expects ▼
- The body of the function

Explanation

Here is what the function would look like:

Note that we still need to have at least 3 tests for this function (for both endpoints and a midpoint of the interval).

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