<u>Course</u>

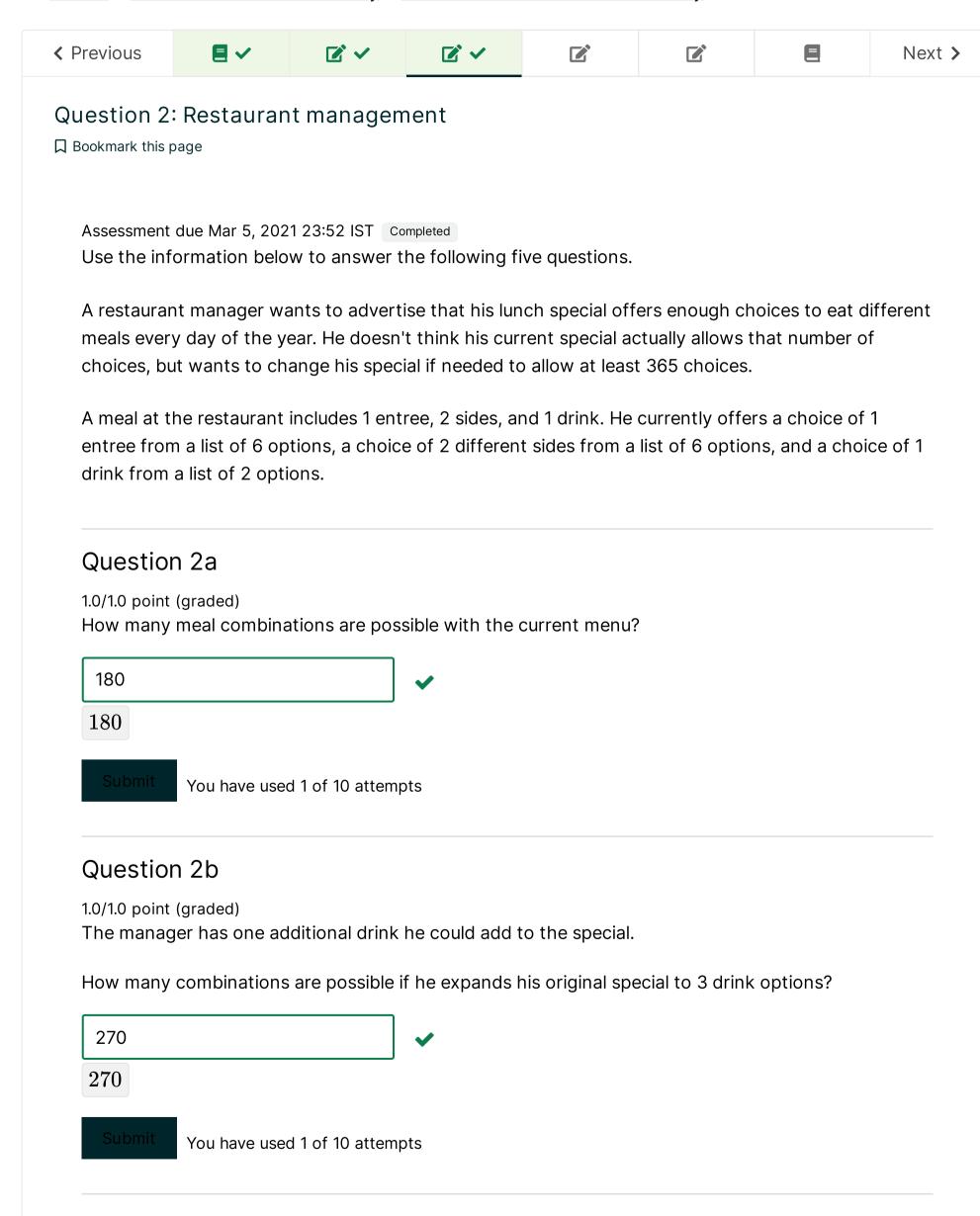
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* Course / Section 1: Discrete Probability / 1.4 Assessment: Discrete Probability



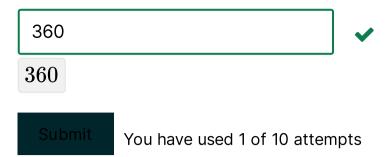
Question 2c

1.0/1.0 point (graded)

The manager decides to add the third drink but needs to expand the number of options. The manager would prefer not to change his menu further and wants to know if he can meet his goal by

letting customers choose more sides.

How many meal combinations are there if customers can choose from 6 entrees, 3 drinks, and select 3 sides from the current 6 options?



Question 2d

1.0/1.0 point (graded)

The manager is concerned that customers may not want 3 sides with their meal. He is willing to increase the number of entree choices instead, but if he adds too many expensive options it could eat into profits. He wants to know how many entree choices he would have to offer in order to meet his goal.

- Write a function that takes a number of entree choices and returns the number of meal combinations possible given that number of entree options, 3 drink choices, and a selection of 2 sides from 6 options.
- Use sapply() to apply the function to entree option counts ranging from 1 to 12.

What is the minimum number of entree options required in order to generate more than 365 combinations?



Question 2e

1.0/1.0 point (graded)

The manager isn't sure he can afford to put that many entree choices on the lunch menu and thinks it would be cheaper for him to expand the number of sides. He wants to know how many sides he would have to offer to meet his goal of at least 365 combinations.

- Write a function that takes a number of side choices and returns the number of meal combinations possible given 6 entree choices, 3 drink choices, and a selection of 2 sides from the specified number of side choices.
- Use sapply() to apply the function to side counts ranging from 2 to 12.

What is the minimum number of side options required in order to generate more than 365 combinations?



Generating Speech Output

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