



Assignment Project Exam Help

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<https://eduassistpro.github.io/>

Time Share Exc

Problem

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CIS-418

Time Share Exchange problem

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ORLANDO

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HORSESHOE

Time Share Exchange problem

- **Objective:**
 - Maximize the number of exchanges
- **Decision variables:**
 - To assign slot x to customer y , 15 customers \times 12 combinations
- **Constraints:**
 - Binary Variable <https://eduassistpro.github.io/> you can set them as non-neg
 - A customer can only receive what it likes (based on allowance rule)
 - A customer will not receive a combination that wasn't her first or second choice
 - A customer can receive no more than one combination
 - A customer can receive a particular resort/season combination only if someone else gave the same combination up.

Different business rules

Exchange rules:

- Only same color exchanges are allowed.
- Same color and downward exchanges are allowed. Recall the rank is Red>White>Blue.
- All exchanges are

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Customers' satisfaction:

- First choice = Second choice
- First choice = $a \times$ Second choice, $a > 1$. We capture customers' satisfaction in objective function.

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Go to excel file “Time Share Homework” and solve the problem

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