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STUDENT

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⚡ Decision Making and Recursive Algorithms
Checkpoint Decision Making and Recursive Algorithms

Unlocked

What You're Aiming For

Decision Making (if-else and switch) & Recursion: It's about to answer and give solutions to the following tasks :

Instructions

Decision Making (if-else and switch): (choose at least 2 tasks from below)

Leap Year Checker: Create a function that takes a year as input and determines whether it is a leap year or not. Leap years are divisible by 4, but not by 100 unless they are also divisible by 400.

Ticket Pricing: Write a program that prompts the user to enter their age and then determines the price of a movie ticket based on the following criteria:

- Children (age <= 12): $10
- Teenagers (age 13-17): $15
- Adults (age >= 18): $20

Weather Clothing Adviser: Develop a program that asks the user for the current temperature and whether it is raining or not. Based on this information, advise the user on what clothing to wear.

Recursion: (choose at least 2 tasks from below)

Fibonacci Sequence: Implement a recursive function to generate the nth Fibonacci number. The Fibonacci sequence starts with 0 and 1, and each subsequent number is the sum of the two preceding numbers (0, 1, 1, 2, 3, 5, 8, ...).

Palindrome Checker: Create a recursive function to check if a given string is a palindrome (reads the same forwards and backwards), ignoring spaces, punctuation, and capitalization.

Power Function: Write a recursive function to calculate the result of raising a number to a given power.

Link Submission

Paste Your Project Link Here

Submit Checkpoint

Share with your instructor the GitHub Public repository

ⓘ Note: Once your instructor approved the checkpoint, you will no longer be able to change the link.

✦ Helpful Resources   ⌄

These ressources can help you

🔧 Evaluation Specifics   ⌄

How We'll Evaluate

Your checkpoint will be evaluated based on these criteria, each rated from 0 to 5.

✏️ **What We're Looking For**

✨ **Checkpoint Assessment**

- Your Tech Skills
- Quality of Work
- Problem-Solving Skills
- Deadline Alert: (0 score if missed)

How We'll Evaluate

Your checkpoint will be evaluated based on these criteria, each rated from 0 to 5.

✏️ **What We're Looking For**

✨ **Checkpoint Assessment**