CASE 1

Solving Real-World Problems using Computational Thinking

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Introduction

Problem:

Managing a restaurant’s menu budget is a critical challenge for customers who want to enjoy a great dining experience while staying within their financial limits.

Iteration 1

Problem Identification:

How will the program combine meals in constraint with the customer's budget?

Decomposition:

1. Identify the customer's budget
2. Create sets of meals based on the customer's budget

Iteration 1

Pattern Recognition:

The total value of the budget meals must correlate with the budget of the customer

Abstraction:

1. Customer’s maximum budget
2. List of meals with given prices

Iteration 2

Problem Identification:

How will the customer
remove a specific order in
case of human error?

Decomposition:

Show the total orders made
by the customer
Remove the specified order
by deleting its key

Iteration 2

Pattern Recognition

Orders of the customer is also the same with

Abstraction

1. Showcase all the orders of the customer
2. Use the indices of the orders as keys for removal