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Sect. 004

Data Structures

Final Project Proposal

* With Colorado being one of the fastest growing states in the nation, the amount of restaurants coming into the state are at an all-time high. New fast food, diners, cafes are popping up at a rapid pace and it’s tough deciding on where to go eat. My proposal is to come up with a program that will find a restaurant that is suited for the person’s preference depending on what city they are in (American, Asian, Mexican, etc.). They will start off at a city then input a city where they want to travel to. Then, they will be asked what type of food they are craving and after choosing a category, a list of different restaurants will pop up. They can “press” on each restaurant to get more info like ratings, environment, and extra details to see if the restaurant suits their needs.
* Data Structures:
* Graphs to connect the cities
* Array for the different types of foods
* Linked List to keep track of restaurant choices
* Struct to hold restaurant info
* Floats for ratings
* Strings for restaurant description
* String for open and closing times
* Design:
* Class for cities
* Class for restaurants
* Find highest rating
* Instructions:

1. The user will first input what city they are at
2. They will then select a city they want to travel to
3. A list of different food types will pop up and they can choose what type they want
4. Then they can select a restaurant themselves or choose the highest rated one
5. Then they can check more info on the restaurant and see if they want to go there