

QA Back-End Technologies Basics

Regular Exam

You can check your solutions in [Judge](#).

1. Pizza Factory Data Organization

Welcome to the **Pizza Factory Project**! We are focused on the efficient management of our pizza recipes and ingredients. Due to recent system updates, our recipe data has become disorganized. Properly structured and comprehensive data are essential for maintaining quality and consistency in our pizzas. The scrambled data includes crucial information about various pizza recipes.

You will be provided information on **7 pizza recipes**. Each entry includes the **pizzaId(number)**, **pizzaName(string)**, **size(string)**, **ingredients(array of strings)**, and **cookingMethod(string)**. You need to organize this data. The details are presented in a sentence format:

1. "Pizza ID **2001** is the **Margherita Pizza**, available in **Medium** size. It contains **Tomato Sauce**, **Mozzarella Cheese** and **Basil**. Cooking Method: **Baked**."
2. "The **Pepperoni Pizza**, with ID **2002**, is available in **Large** size. Its main ingredients are **Tomato Sauce**, **Mozzarella Cheese** and **Pepperoni**. Cooking Method: **Baked**."
3. "Pizza ID **2003**, the **BBQ Chicken Pizza**, is offered in **Extra Large** size. It includes **BBQ Sauce**, **Chicken** and **Red Onions**. Cooking Method: **Grilled**."
4. "The **Veggie Supreme Pizza**, with ID **2004**, comes in **Small** size. It features **Tomato Sauce**, **Mozzarella Cheese** and a **Variety of Vegetables**. Cooking Method: **Baked**."
5. "With ID **2005**, the **Hawaiian Pizza** is available in **Medium** size. Its ingredients are **Tomato Sauce**, **Mozzarella Cheese** and **Pineapple**. Cooking Method: **Baked**."
6. "Pizza ID **2006**, the **Meat Lovers Pizza**, is offered in **Large** size. It contains **Tomato Sauce**, **Mozzarella Cheese** and **Assorted Meats**. Cooking Method: **Baked**."
7. "The **Pesto Pizza**, with ID **2007**, comes in **Small** size. Its main ingredients include **Pesto Sauce**, **Mozzarella Cheese** and **Sun-dried Tomatoes**. Cooking Method: **Grilled**."

Convert the scrambled data into **structured JSON format manually**:

- Use a **text or a code editor** to write the JSON document. We recommend **Notepad++** or **VS Code**.
- **Extract relevant details** from each species' description.
- **Organize the data** into a structured JSON format.
- Each **pizza recipe record** in the JSON document should include **the following attributes**:
 - **pizzaId**: Integer (A unique identifier for each pizza)
 - **pizzaName**: String (The name of the pizza)
 - **size**: String (The size of the pizza, e.g., Small, Medium, Large, Extra Large)
 - **ingredients**: Array of Strings (Three key ingredients used in the pizza)
 - **cookingMethod**: String (The method used to cook the pizza)

You are provided with a **JSON parser application**. Use it to **parse and validate** the JSON file you have created.

- **Replace the content of Pizza-Factory.json** with the JSON data you created.
- After pasting your JSON data into the corresponding JSON file, **make sure to save any changes**.

- **Run the parser** application within your IDE.
- **The parser will process the chosen JSON file** and display the extracted data **in the console**.
- Carefully review the output in the console.
- If the parser displays an error message, check your JSON file for any syntax errors or formatting issues.
- Ensure all required keys are present and correctly named.
- **Copy the results from the console into the Judge System.**

*Use Ctrl + C to copy from the console.