

CSE 310 Online B1: Bracket Matching

Time: 30 minutes

May 2025

1 Objective

In this assignment, you will create a lexical analyzer to track and validate the correct use of opening and closing parentheses, curly braces, and square brackets. The goal is to detect and report mismatches in:

- Parentheses: ()
- Curly Braces: { }
- Square Brackets: []

2 Task Description

- Create a fresh `.l` file (**Not in your offline**) such that it can detect mismatched brackets.
- If they don't match, print an appropriate error message in the log file.
- **You can only write code in the `.l` file and have to use lexical analysis techniques.** That means writing appropriate actions when a bracket symbol is detected. You can be sure that you will be given only stream of brackets.

Sample Input

({}) []

Example Output in Log File

Brackets are matched.

Sample Input

```
{(})
```

Example Output in Log File

Unmatched brackets.

3 Submission

- Submit only your new .1 file.
- Name your file as <studentID>.1