## Column Class

- Constructs an ArrayDeque with a type attribute
- Column Name
- Type of items that go into the column attribute
- Has Method to check if adding an object is allowed based on stored column type

## Table Class

- Implements a LinkedHashMap
  - Keys are an array of column names
  - Values are ArrayDeque's corresponding to columns
- Table name attribute
- LinkedHashMap<Strings, ArrrayDeque>
- Methods:
  - Join (Searches for common columns, finds common values, creates a new table and calls filter on this new table)
    - Helper Methods:
      - Find common columns
      - Find common elements inside of each columns
  - addRow( adds a row from a column)
  - Filter (filters table elements based on a condition)

```
public class Table {
    private class column<A> {
        ArrayDeque<A> values;
        String name;
    public column(String name) {
            this.values = new ArrayDeque<A>();
            this.name = name;
        }
    private LinkedHashMap<String, ArrayDeque> values;
    private String name;
    public Table(String name, ArrayDeque<String> columNames) {
        for (String s: columNames) {
            column c= new column<>(s);
            values.put(s,c.values);
        }
    }
    public void addRow(ArrayDeque items) {
    }
}
```