# Electricity Board(---RETIRED---)

Grade settings: Maximum grade: 100

Disable external file upload, paste and drop external content: Yes

**Based on**: Electricity Board(---RETIRED---)

Run: Yes Evaluate: Yes Automatic grade: Yes

The Tamil Nadu government wants to know the Electricity Board details. They wanted to get the Connection Ids based on the Connection type. As a software developer, you create a Java program in accordance with the specification.

## **Component Specification: ElectricityBoardMain Class**

Type (Class)	Attributes	Methods
ElectricityBoardMain	private Map <string, String&gt; electricityMap</string, 	Getter and setter methods for the attribute are included in the code skeleton.

**Note:** Here the electricityMap, holds the Key as connectionId and Value as connectionType.

# Requirement 1: Find the number of connections based on the given connectionType.

Type (Class)	Methods	Responsibilities
ElectricityBoard Main	public int findCountOfConnectionsBasedOnTheConnec tionType(String connectionType)	This method accepts connectionTy pe as an argument. If the connectionType matches the connectionType p resent in the Map, it must count the connections and return the same. Else return -1.  Condition: connectionType is a case-insensitive

Requirement 2: Filter the connectionIds based on the connectionType.

Type (Class)	Methods	Responsibilities
	public List <string> findConnectionIdsBasedOnTheConn ectionType(String connectionType)</string>	This method filters the connectionId based on the connectionType being passed as the parameter and returns a list of connectionId.  Condition: connectionType is a caseinsensitive

You are provided with the main method as code template and it is excluded from evaluation.

#### Note:

- In the Sample Input / Output provided, the highlighted text in bold corresponds to the input given by the user, and the rest of the text represents the output.
- Ensure to follow the object-oriented specifications provided in the question description.
- Ensure to provide the names for the classes, attributes, and methods as specified in the question description.
- Adhere to the code template, if provided.

## Sample Input/Output 1:

Enter the number of connection records to be added

4

Enter the connection records (Connection Id: Connection type)

ASHG2376:single

GFHJ9768:Single

**HGHH9776:double** 

SJHY2838:Double

Enter the Connection type to be searched

#### SINGLE

The count of connection Ids based on SINGLE are 2

Enter the Connection type to identify the Connection Ids

#### DOUBLE

Connection Ids based on the DOUBLE are

GFHJ9768

**SJHY2838** 

# Sample Input/Output 2:

Enter the number of connection records to be added

2

Enter the connection records (Connection Id : Connection type)

ASHH0919:Single

HAGS1891:Three

Enter the Connection type to be searched

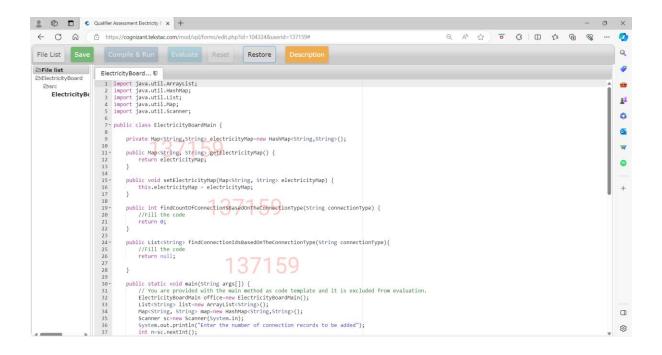
#### double

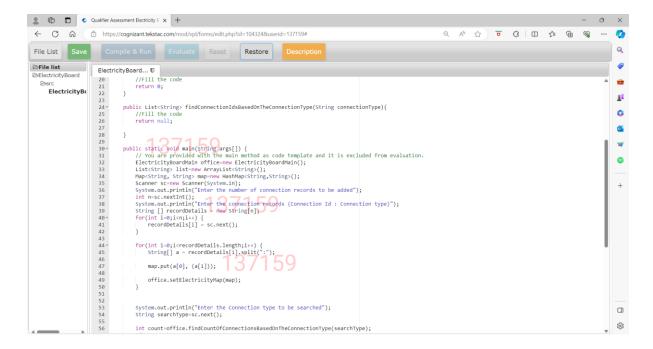
No Connection Ids were found for double

Enter the Connection type to identify the Connection Ids

#### standard

No Connection Ids were found for the standard





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DelectricityBoard

Descr

ElectricityBo

48

49

office,setElectricityNap

49

office,setElectricityNap
                                                                                                                                                                                                                             office.setElectricityMap(map);
                                                                                                                                                                                                                             1I
                                                                                                                                                                                                                             0
                                        System.out.println("Enter the Connection type to be searched");
String searchType=sc.next();
                                                                                                                                                                                                                             0
                                        int count-office,findCountOfConnectionsBasedOnTheConnectionType(searchType); if(count>a) {
    System.out.println("The count of connection Ids based on "+searchType+" are "+count);
                                       {
    System.out.println("No Connection Ids were found for "+searchType);
}
                                        System.out.println("Enter the Connection type to identify the Connection Ids");
String connectionType-sc.next();
                                        list=office.findConnectionIdsBasedOnTheConnectionType(connectionType);
                                       if(list.size()=1) {
    System.out.println("Connection Ids-based on the "+connectionType+" are ");
    for(String s:list)
    {
        system.out.println(s);
    }
}
                                        } else System.out.println("No Connection Ids were found for the "+connectionType);
                                                                                                                                                                                                                            а
                                                                                                                                                                                                                             (3)
```