DDR is one of the famous electronic products manufacturing companies. They wanted to choose the batteries for their products based on the watt power. The manager intimates a software developer to help in their process. You being a software developer, develop a Java program based on the requirement.

**Component Specification: Battery Class**

|  |  |  |
| --- | --- | --- |
| **Type (Class)** | **Attributes** | **Methods** |
| **Battery** | private Map<String, Integer> **batteryMap** | Getter and setter methods for the attribute are included in the code skeleton.  ***Note****: Here the batteryMap, holds the Key as batteryName and Value as watt.* |

**Component Specification: Battery Class**

|  |  |  |  |
| --- | --- | --- | --- |
| **Requirements** | **Type (Class)** | **Methods** | **Responsibilities** |
| Insert the batteryName and watt into the *batteryMap*. | **Battery** | public void **addBatteryDetails**(String batteryName, int watt) | This method takes an batteryName and a watt, and adds a new entry to the batteryMap, associating the specified batteryName with the given watt. |
| Find the watt for the specified batteryName. | **Battery** | public int **findWattPowerBasedOnBatteryName**(String batteryName) | This method accepts batteryName as an argument and It finds the watt associated with a given type of batteryName. If no such batteryName is found, it returns -1 to indicate that the batteryName does not exist in the map.  ***Condition****:*   * *batteryName is a case-sensitive.* |
| Retrieve the batteryNames with the highest watt. | **Battery** | public Set<String> **findHighestWattBatteries**() | This method filters the records and returns the Set of batteryName with the highest watt.  ***Condition****:*   * *If more than one battery has the highest watt those batteryNames get added to the list.* |

The main method in the **UserInterface**class receives the total number of battery details and their specifics from the user.

Invoke the **addBatteryDetails**method to add the details into the ***batteryMap***.

Get the **batteryName**from the user and invoke the ***findWattPowerBasedOnBatteryName***method, finds the watt associated with a given type of batteryName . Display the results as per the sample input and output.

Invoke the ***findHighestWattBatteries***method, which retrieves the batteryNames with the highest watt. Display the results as per the sample input and output.

**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.
* **Please do not use System.exit(0); to terminate the program.**

**Sample Input/Output 1:**

Enter number of records to be added:

**5**

Enter the battery records:

**Hero Cell:30**

**Bull Cell:40**

**Ivp Cell:70**

**Tvp Cell:20**

**Netron Cell:70**

Enter the battery name needs to be searched

**Hero Cell**

30

Batteries with the highest watt power are:

Netron Cell

Ivp Cell

**Sample Input/Output 2:**

Enter number of records to be added:

**5**

Enter the battery records:

**Hero Cell:30**

**Bull Cell:40**

**Ivp Cell:70**

**Tvp Cell:20**

**Netron Cell:70**

Enter the battery name needs to be searched

**Dsv Cell**

Dsv Cell is an invalid battery name

Batteries with the highest watt power are:

Netron Cell

Ivp Cell