Farm Fresh

Farm Fresh is a well-known Vegetable store across the city. They wanted to get the vegetable names list and the count of vegetables for the given vegetable type. The manager intimates a software developer to help in their process. You, being the software developer, develop a Java program based on the requirement.

**Component Specification: VegetableMain Class**

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| **Type (Class)** | **Attributes** | **Methods** |
| **VegetableMain** | private Map<String, String> **vegetableMap** | Getter and setter methods for the attribute are included in the code skeleton. |

***Note****: Here the vegetableMap, holds the Key as vegetableName and Value as vegetableType.*

**Requirement 1: Find the count of vegetables based on the given vegetableType.**

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| --- | --- | --- |
| **Type (Class)** | **Methods** | **Responsibilities** |
| **VegetableMain** | public int **findTheCountOfVegetablesBasedOnTheVegetableType**(String vegetableType) | This method accepts vegetableType as an argument. If the vegetableType matches the vegetableType present in the Map, it must count the number of vegetables on the given type and return the same. Else return -1.  ***Condition****:  vegetableType is case-insensitive* |

**Requirement 2: Filter the vegetables based on the vegetableType.**

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| **Type (Class)** | **Methods** | **Responsibilities** |
| **VegetableMain** | public List<String> **findVegetablesBasedOnTheVegetableType**(String vegetableType) | This method filters the vegetableType and returns the list of vegetables that have the same vegetableType.  ***Condition****:  vegetableType is case-insensitive* |

**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 number of records to be added

**3**

Enter the records (Vegetable Name: Vegetable Type)

**Lettuce:Leafy**

**Spinach:Leafy**

**Potato:Root**

**Carrot:Root**

Enter the Vegetable type to be searched

**root**

The count of vegetables based on the type root are 2

Enter the vegetable type to get the list of vegetables

**LEAFY**

Vegetables based on the LEAFY are

Lettuce

Spinach

**Sample Input/Output 2:**

Enter number of records to be added

**2**

Enter the records (Vegetable Name: Vegetable Type)

**Potato:root**

**Onion:Allium**

Enter the Vegetable type to be searched

**root**

The count of vegetables based on the type root are 1

Enter the vegetable type to get the list of vegetables

**shrubs**

No vegetables were found for the shrubs

**Sample Input/Output 3:**

Enter number of records to be added

**2**

Enter the records (Vegetable Name: Vegetable Type)

**Potato:root**

**Onion:Allium**

Enter the Vegetable type to be searched

**leafy**

No Vegetables were found for leafy

Enter the vegetable type to get the list of vegetables

**allium**

Vegetables based on the allium are

Onion