Cooking Companion(---RETIRED---)

Grade settings: Maximum grade: 100

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

Based on: Cooking Companion(---RETIRED---)

Run: Yes Evaluate: Yes Automatic grade: Yes

Alice loves to cook and experiment with new recipes. She has a collection of recipe books with hundreds of recipes, but she struggles to decide what to cook based on the amount of time she has available. Alice wanted to organize her recipes and search for dishes based on their preparation time.

You being the software developer, develop a Java program based on the requirement.

Component Specification: CookBookMain Class

Type (Class)	Attributes	Methods
CookBookMain	private Map <string, integer=""> recipeMap</string,>	Getter and setter methods for the attribute are
	Integer> recipeMap	included in the code skeleton.

Note: Here the recipe, holds the Key as recipeName and Value as preparationTime(in minutes).

Requirement 1: Count the number of recipeNames based on the given *preparationTime* .

Type (Class)	Methods	Responsibilities
ın	public int countRecipesUnderTime (int preparationTi me)	This method accepts preparationTime as an argument. If the preparationTime matches the preparationTime present in the Map, it must count the recipe's and return the count. Condition: If preparationTime is n minutes is less

	than or equal to zero, return -1.

Requirement 2: Filter the recipeName based on the preparationTime.

Type (Class)	Methods	Responsibilities
	public List <string> getRecipesUnderTime(int preparatio nTime)</string>	This method accepts preparationTim e as parameter and filters the recipeName and returns the list of preparationTime that are less than or equal to the given preparationTime .

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 recipes to be added

10

Enter the recipe (Recipe name: Preparation time)

LemonGarlicSalmon:25

CrispyChickenTenders:30

BeefStroganoff:45

VegetableStirFry:20

ButternutSquashSoup:40

SpicyShrimpPasta:35

ChickenPotPie:50

TeriyakiSalmon:20

BroccoliCheddarSoup:35

VegetableLasagna:60

Enter the Preparation time to be searched

20

The Recipes with preparation time less than 20 minutes are 2

Enter the Preparation time to identify the Recipe Names

35

Recipes with preparation time less than 35 minutes are

SpicyShrimpPasta

TeriyakiSalmon

LemonGarlicSalmon

CrispyChickenTenders

VegetableStirFry

BroccoliCheddarSoup

Sample Input / Output 2

Enter number of recipes to be added

Enter the recipe (Recipe name: Preparation time)

CreamyMushroomPasta:50

BakedPotatoes:40

MediterraneanQuinoaBowl:30

StuffedBellPeppers:60

Enter the Preparation time to be searched

10

No recipes were found with preparation time less than 10 minutes

Enter the Preparation time to identify the Recipe Names

20

No Recipes were found for 20 minutes

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2 Qualifier Assessment Cooking Co x +
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  CookBookMain.java 

CookBookMain.java 

CookBookMain.java 

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CookBookM:

1 import java.util.ArrayList;
2 import java.util.HashMap;
3 import java.util.Map;
5 import java.util.Map;
6
7- public class CookBookMain {
8
9 private MaprString, Inte
      ⊜src
                                                                                                                                                                                                                                                                                                                                  <u> 2</u> <u>X</u>
                                                                                                                                                                                                                                                                                                                                  G
                                             private Map<String, Integer> recipeMap = new HashMap<>();
                                     9 10 11 12 13 14 15 16 17 18 19 22 12 22 24 25 26 29 31 32 26 29 33 34 35 36 37
                                                 public Map<String, Integer> getRecipeMap() {
   return recipeMap;
}
                                                  public void setRecipeMap(Map<String, Integer> recipeMap) {
    this.recipeMap = recipeMap;
                                                        public List<String> getRecipesUnderTime(int preparationTime) {
   //Fill the code here
                                                        return null;
                                                        public static void main(String args[]) {
   //You are provided with the main method as code template and it is excluded from evaluation
   CookBookMain cook =new CookBookMain();
   List-Strings list=new ArrayList-Strings();
   Map<String, Integer> map=new HashMap<String,Integer>();
```



