

Problem 2353: Design a Food Rating System

Problem Information

Difficulty: Medium

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Design a food rating system that can do the following:

Modify

the rating of a food item listed in the system.

Return the highest-rated food item for a type of cuisine in the system.

Implement the

FoodRatings

class:

FoodRatings(String[] foods, String[] cuisines, int[] ratings)

Initializes the system. The food items are described by

foods

,

cuisines

and

ratings

, all of which have a length of

n

.

foods[i]

is the name of the

i

th

food,

cuisines[i]

is the type of cuisine of the

i

th

food, and

ratings[i]

is the initial rating of the

i

th

food.

void changeRating(String food, int newRating)

Changes the rating of the food item with the name

food

.

String highestRated(String cuisine)

Returns the name of the food item that has the highest rating for the given type of

cuisine

. If there is a tie, return the item with the

lexicographically smaller

name.

Note that a string

x

is lexicographically smaller than string

y

if

x

comes before

y

in dictionary order, that is, either

x

is a prefix of

y

, or if

i

is the first position such that

$x[i] \neq y[i]$

, then

$x[i]$

comes before

$y[i]$

in alphabetic order.

Example 1:

Input

```
["FoodRatings", "highestRated", "highestRated", "changeRating", "highestRated",  
"changeRating", "highestRated"] [[["kimchi", "miso", "sushi", "moussaka", "ramen", "bulgogi"],  
["korean", "japanese", "japanese", "greek", "japanese", "korean"], [9, 12, 8, 15, 14, 7]],  
["korean"], ["japanese"], ["sushi", 16], ["japanese"], ["ramen", 16], ["japanese"]]
```

Output

```
[null, "kimchi", "ramen", null, "sushi", null, "ramen"]
```

Explanation

```
FoodRatings foodRatings = new FoodRatings(["kimchi", "miso", "sushi", "moussaka", "ramen",  
"bulgogi"], ["korean", "japanese", "japanese", "greek", "japanese", "korean"], [9, 12, 8, 15, 14,
```

```
7]); foodRatings.highestRated("korean"); // return "kimchi" // "kimchi" is the highest rated
korean food with a rating of 9. foodRatings.highestRated("japanese"); // return "ramen" //
"ramen" is the highest rated japanese food with a rating of 14.
foodRatings.changeRating("sushi", 16); // "sushi" now has a rating of 16.
foodRatings.highestRated("japanese"); // return "sushi" // "sushi" is the highest rated japanese
food with a rating of 16. foodRatings.changeRating("ramen", 16); // "ramen" now has a rating
of 16. foodRatings.highestRated("japanese"); // return "ramen" // Both "sushi" and "ramen"
have a rating of 16. // However, "ramen" is lexicographically smaller than "sushi".
```

Constraints:

$1 \leq n \leq 2 * 10$

4

$n == \text{foods.length} == \text{cuisines.length} == \text{ratings.length}$

$1 \leq \text{foods}[i].\text{length}, \text{cuisines}[i].\text{length} \leq 10$

`foods[i]`

,

`cuisines[i]`

consist of lowercase English letters.

$1 \leq \text{ratings}[i] \leq 10$

8

All the strings in

`foods`

are

distinct

.

food

will be the name of a food item in the system across all calls to

changeRating

.

cuisine

will be a type of cuisine of

at least one

food item in the system across all calls to

highestRated

.

At most

$2 * 10$

4

calls

in total

will be made to

changeRating

and

highestRated

Code Snippets

C++:

```
class FoodRatings {
public:
    FoodRatings(vector<string>& foods, vector<string>& cuisines, vector<int>&
ratings) {

    }

    void changeRating(string food, int newRating) {

    }

    string highestRated(string cuisine) {

    }
};

/**
 * Your FoodRatings object will be instantiated and called as such:
 * FoodRatings* obj = new FoodRatings(foods, cuisines, ratings);
 * obj->changeRating(food,newRating);
 * string param_2 = obj->highestRated(cuisine);
 */
```

Java:

```
class FoodRatings {

    public FoodRatings(String[] foods, String[] cuisines, int[] ratings) {

    }

    public void changeRating(String food, int newRating) {

    }

}
```

```

public String highestRated(String cuisine) {

}

}

/**
 * Your FoodRatings object will be instantiated and called as such:
 * FoodRatings obj = new FoodRatings(foods, cuisines, ratings);
 * obj.changeRating(food,newRating);
 * String param_2 = obj.highestRated(cuisine);
 */

```

Python3:

```

class FoodRatings:

    def __init__(self, foods: List[str], cuisines: List[str], ratings: List[int]):

    def changeRating(self, food: str, newRating: int) -> None:

    def highestRated(self, cuisine: str) -> str:

    # Your FoodRatings object will be instantiated and called as such:
    # obj = FoodRatings(foods, cuisines, ratings)
    # obj.changeRating(food,newRating)
    # param_2 = obj.highestRated(cuisine)

```

Python:

```

class FoodRatings(object):

    def __init__(self, foods, cuisines, ratings):
        """
        :type foods: List[str]
        :type cuisines: List[str]
        :type ratings: List[int]
        """

```



```

def changeRating(self, food, newRating):
    """
    :type food: str
    :type newRating: int
    :rtype: None
    """

def highestRated(self, cuisine):
    """
    :type cuisine: str
    :rtype: str
    """

# Your FoodRatings object will be instantiated and called as such:
# obj = FoodRatings(foods, cuisines, ratings)
# obj.changeRating(food,newRating)
# param_2 = obj.highestRated(cuisine)

```

JavaScript:

```

/**
 * @param {string[]} foods
 * @param {string[]} cuisines
 * @param {number[]} ratings
 */
var FoodRatings = function(foods, cuisines, ratings) {

};

/**
 * @param {string} food
 * @param {number} newRating
 * @return {void}
 */
FoodRatings.prototype.changeRating = function(food, newRating) {

};

```

```

/**
 * @param {string} cuisine
 * @return {string}
 */
FoodRatings.prototype.highestRated = function(cuisine) {

};

/**
 * Your FoodRatings object will be instantiated and called as such:
 * var obj = new FoodRatings(foods, cuisines, ratings)
 * obj.changeRating(food,newRating)
 * var param_2 = obj.highestRated(cuisine)
 */

```

TypeScript:

```

class FoodRatings {
  constructor(foods: string[], cuisines: string[], ratings: number[]) {

  }

  changeRating(food: string, newRating: number): void {

  }

  highestRated(cuisine: string): string {

  }
}

/**
 * Your FoodRatings object will be instantiated and called as such:
 * var obj = new FoodRatings(foods, cuisines, ratings)
 * obj.changeRating(food,newRating)
 * var param_2 = obj.highestRated(cuisine)
 */

```

C#:

```

public class FoodRatings {

    public FoodRatings(string[] foods, string[] cuisines, int[] ratings) {

    }

    public void ChangeRating(string food, int newRating) {

    }

    public string HighestRated(string cuisine) {

    }
}

/**
 * Your FoodRatings object will be instantiated and called as such:
 * FoodRatings obj = new FoodRatings(foods, cuisines, ratings);
 * obj.ChangeRating(food,newRating);
 * string param_2 = obj.HighestRated(cuisine);
 */

```

C:

```

typedef struct {

} FoodRatings;

FoodRatings* foodRatingsCreate(char** foods, int foodsSize, char** cuisines,
int cuisinesSize, int* ratings, int ratingsSize) {

}

void foodRatingsChangeRating(FoodRatings* obj, char* food, int newRating) {

}

char* foodRatingsHighestRated(FoodRatings* obj, char* cuisine) {

```

```

}

void foodRatingsFree(FoodRatings* obj) {

}

/**
 * Your FoodRatings struct will be instantiated and called as such:
 * FoodRatings* obj = foodRatingsCreate(foods, foodsSize, cuisines,
 * cuisinesSize, ratings, ratingsSize);
 * foodRatingsChangeRating(obj, food, newRating);

 * char* param_2 = foodRatingsHighestRated(obj, cuisine);

 * foodRatingsFree(obj);
 */

```

Go:

```

type FoodRatings struct {

}

func Constructor(foods []string, cuisines []string, ratings []int)
FoodRatings {

}

func (this *FoodRatings) ChangeRating(food string, newRating int) {

}

func (this *FoodRatings) HighestRated(cuisine string) string {

}

/**
 * Your FoodRatings object will be instantiated and called as such:

```

```

* obj := Constructor(foods, cuisines, ratings);
* obj.ChangeRating(food,newRating);
* param_2 := obj.HighestRated(cuisine);
*/

```

Kotlin:

```

class FoodRatings(foods: Array<String>, cuisines: Array<String>, ratings:
IntArray) {

    fun changeRating(food: String, newRating: Int) {

    }

    fun highestRated(cuisine: String): String {

    }

}

/**
 * Your FoodRatings object will be instantiated and called as such:
 * var obj = FoodRatings(foods, cuisines, ratings)
 * obj.changeRating(food,newRating)
 * var param_2 = obj.highestRated(cuisine)
 */

```

Swift:

```

class FoodRatings {

    init(_ foods: [String], _ cuisines: [String], _ ratings: [Int]) {

    }

    func changeRating(_ food: String, _ newRating: Int) {

    }

    func highestRated(_ cuisine: String) -> String {

    }

}

```

```

}
}

/**
 * Your FoodRatings object will be instantiated and called as such:
 * let obj = FoodRatings(foods, cuisines, ratings)
 * obj.changeRating(food, newRating)
 * let ret_2: String = obj.highestRated(cuisine)
 */

```

Rust:

```

struct FoodRatings {

}

/**
 * `&self` means the method takes an immutable reference.
 * If you need a mutable reference, change it to `&mut self` instead.
 */
impl FoodRatings {

    fn new(foods: Vec<String>, cuisines: Vec<String>, ratings: Vec<i32>) -> Self
    {

    }

    fn change_rating(&self, food: String, new_rating: i32) {

    }

    fn highest_rated(&self, cuisine: String) -> String {

    }
}

/**
 * Your FoodRatings object will be instantiated and called as such:
 * let obj = FoodRatings::new(foods, cuisines, ratings);
 * obj.change_rating(food, newRating);
 * let ret_2: String = obj.highest_rated(cuisine);
 */

```

```
*/
```

Ruby:

```
class FoodRatings

  =begin
  :type foods: String[]
  :type cuisines: String[]
  :type ratings: Integer[]
  =end
  def initialize(foods, cuisines, ratings)

  end

  =begin
  :type food: String
  :type new_rating: Integer
  :rtype: Void
  =end
  def change_rating(food, new_rating)

  end

  =begin
  :type cuisine: String
  :rtype: String
  =end
  def highest_rated(cuisine)

  end

  # Your FoodRatings object will be instantiated and called as such:
  # obj = FoodRatings.new(foods, cuisines, ratings)
  # obj.change_rating(food, new_rating)
  # param_2 = obj.highest_rated(cuisine)
```

PHP:

```
class FoodRatings {
    /**
     * @param String[] $foods
     * @param String[] $cuisines
     * @param Integer[] $ratings
     */
    function __construct($foods, $cuisines, $ratings) {

    }

    /**
     * @param String $food
     * @param Integer $newRating
     * @return NULL
     */
    function changeRating($food, $newRating) {

    }

    /**
     * @param String $cuisine
     * @return String
     */
    function highestRated($cuisine) {

    }
}

/**
 * Your FoodRatings object will be instantiated and called as such:
 * $obj = FoodRatings($foods, $cuisines, $ratings);
 * $obj->changeRating($food, $newRating);
 * $ret_2 = $obj->highestRated($cuisine);
 */
```

Dart:

```
class FoodRatings {

    FoodRatings(List<String> foods, List<String> cuisines, List<int> ratings) {
```



```

}

void changeRating(String food, int newRating) {

}

String highestRated(String cuisine) {

}
}

/**
 * Your FoodRatings object will be instantiated and called as such:
 * FoodRatings obj = FoodRatings(foods, cuisines, ratings);
 * obj.changeRating(food,newRating);
 * String param2 = obj.highestRated(cuisine);
 */

```

Scala:

```

class FoodRatings(_foods: Array[String], _cuisines: Array[String], _ratings:
Array[Int]) {

  def changeRating(food: String, newRating: Int): Unit = {

  }

  def highestRated(cuisine: String): String = {

  }

}

/**
 * Your FoodRatings object will be instantiated and called as such:
 * val obj = new FoodRatings(foods, cuisines, ratings)
 * obj.changeRating(food,newRating)
 * val param_2 = obj.highestRated(cuisine)
 */

```

Elixir:

```
defmodule FoodRatings do
  @spec init_(foods :: [String.t], cuisines :: [String.t], ratings ::
    [integer]) :: any
  def init_(foods, cuisines, ratings) do

  end

  @spec change_rating(food :: String.t, new_rating :: integer) :: any
  def change_rating(food, new_rating) do

  end

  @spec highest_rated(cuisine :: String.t) :: String.t
  def highest_rated(cuisine) do

  end
end

# Your functions will be called as such:
# FoodRatings.init_(foods, cuisines, ratings)
# FoodRatings.change_rating(food, new_rating)
# param_2 = FoodRatings.highest_rated(cuisine)

# FoodRatings.init_ will be called before every test case, in which you can
do some necessary initializations.
```

Erlang:

```
-spec food_ratings_init_(Foods :: [unicode:unicode_binary()], Cuisines ::
[unicode:unicode_binary()], Ratings :: [integer()]) -> any().
food_ratings_init_(Foods, Cuisines, Ratings) ->
.

-spec food_ratings_change_rating(Food :: unicode:unicode_binary(), NewRating
:: integer()) -> any().
food_ratings_change_rating(Food, NewRating) ->
.

-spec food_ratings_highest_rated(Cuisine :: unicode:unicode_binary()) ->
unicode:unicode_binary().
food_ratings_highest_rated(Cuisine) ->
```

.

```
%% Your functions will be called as such:
%% food_ratings_init_(Foods, Cuisines, Ratings),
%% food_ratings_change_rating(Food, NewRating),
%% Param_2 = food_ratings_highest_rated(Cuisine),

%% food_ratings_init_ will be called before every test case, in which you can
do some necessary initializations.
```

Racket:

```
(define food-ratings%
(class object%
  (super-new)

  ; foods : (listof string?)
  ; cuisines : (listof string?)
  ; ratings : (listof exact-integer?)
  (init-field
   foods
   cuisines
   ratings)

  ; change-rating : string? exact-integer? -> void?
  (define/public (change-rating food new-rating)
    )

  ; highest-rated : string? -> string?
  (define/public (highest-rated cuisine)
    )))

;; Your food-ratings% object will be instantiated and called as such:
;; (define obj (new food-ratings% [foods foods] [cuisines cuisines] [ratings
ratings]))
;; (send obj change-rating food new-rating)
;; (define param_2 (send obj highest-rated cuisine))
```

Solutions

C++ Solution:

```
/*
 * Problem: Design a Food Rating System
 * Difficulty: Medium
 * Tags: array, string, graph, hash, queue, heap
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(n) for hash map
 */

class FoodRatings {
public:
    FoodRatings(vector<string>& foods, vector<string>& cuisines, vector<int>& ratings) {

    }

    void changeRating(string food, int newRating) {

    }

    string highestRated(string cuisine) {

    }
};

/**
 * Your FoodRatings object will be instantiated and called as such:
 * FoodRatings* obj = new FoodRatings(foods, cuisines, ratings);
 * obj->changeRating(food,newRating);
 * string param_2 = obj->highestRated(cuisine);
 */
```

Java Solution:

```
/**
 * Problem: Design a Food Rating System
 * Difficulty: Medium
 * Tags: array, string, graph, hash, queue, heap
 *
 * Approach: Use two pointers or sliding window technique
```

```

* Time Complexity: O(n) or O(n log n)
* Space Complexity: O(n) for hash map
*/

class FoodRatings {

public FoodRatings(String[] foods, String[] cuisines, int[] ratings) {

}

public void changeRating(String food, int newRating) {

}

public String highestRated(String cuisine) {

}
}

/**
 * Your FoodRatings object will be instantiated and called as such:
 * FoodRatings obj = new FoodRatings(foods, cuisines, ratings);
 * obj.changeRating(food,newRating);
 * String param_2 = obj.highestRated(cuisine);
 */

```

Python3 Solution:

```

"""
Problem: Design a Food Rating System
Difficulty: Medium
Tags: array, string, graph, hash, queue, heap

Approach: Use two pointers or sliding window technique
Time Complexity: O(n) or O(n log n)
Space Complexity: O(n) for hash map
"""

class FoodRatings:

def __init__(self, foods: List[str], cuisines: List[str], ratings:

```

```
List[int]):

def changeRating(self, food: str, newRating: int) -> None:
    # TODO: Implement optimized solution
    pass
```

Python Solution:

```
class FoodRatings(object):

    def __init__(self, foods, cuisines, ratings):
        """
        :type foods: List[str]
        :type cuisines: List[str]
        :type ratings: List[int]
        """

    def changeRating(self, food, newRating):
        """
        :type food: str
        :type newRating: int
        :rtype: None
        """

    def highestRated(self, cuisine):
        """
        :type cuisine: str
        :rtype: str
        """

# Your FoodRatings object will be instantiated and called as such:
# obj = FoodRatings(foods, cuisines, ratings)
# obj.changeRating(food,newRating)
# param_2 = obj.highestRated(cuisine)
```

JavaScript Solution:

```

/**
 * Problem: Design a Food Rating System
 * Difficulty: Medium
 * Tags: array, string, graph, hash, queue, heap
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(n) for hash map
 */

/**
 * @param {string[]} foods
 * @param {string[]} cuisines
 * @param {number[]} ratings
 */
var FoodRatings = function(foods, cuisines, ratings) {

};

/**
 * @param {string} food
 * @param {number} newRating
 * @return {void}
 */
FoodRatings.prototype.changeRating = function(food, newRating) {

};

/**
 * @param {string} cuisine
 * @return {string}
 */
FoodRatings.prototype.highestRated = function(cuisine) {

};

/**
 * Your FoodRatings object will be instantiated and called as such:
 * var obj = new FoodRatings(foods, cuisines, ratings)
 * obj.changeRating(food,newRating)
 * var param_2 = obj.highestRated(cuisine)
 */

```

TypeScript Solution:

```
/**
 * Problem: Design a Food Rating System
 * Difficulty: Medium
 * Tags: array, string, graph, hash, queue, heap
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(n) for hash map
 */

class FoodRatings {
  constructor(foods: string[], cuisines: string[], ratings: number[]) {

  }

  changeRating(food: string, newRating: number): void {

  }

  highestRated(cuisine: string): string {

  }
}

/**
 * Your FoodRatings object will be instantiated and called as such:
 * var obj = new FoodRatings(foods, cuisines, ratings)
 * obj.changeRating(food,newRating)
 * var param_2 = obj.highestRated(cuisine)
 */
```

C# Solution:

```
/*
 * Problem: Design a Food Rating System
 * Difficulty: Medium
 * Tags: array, string, graph, hash, queue, heap
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
```



```

* Space Complexity: O(n) for hash map
*/

public class FoodRatings {

    public FoodRatings(string[] foods, string[] cuisines, int[] ratings) {

    }

    public void ChangeRating(string food, int newRating) {

    }

    public string HighestRated(string cuisine) {

    }
}

/**
 * Your FoodRatings object will be instantiated and called as such:
 * FoodRatings obj = new FoodRatings(foods, cuisines, ratings);
 * obj.ChangeRating(food,newRating);
 * string param_2 = obj.HighestRated(cuisine);
 */

```

C Solution:

```

/*
 * Problem: Design a Food Rating System
 * Difficulty: Medium
 * Tags: array, string, graph, hash, queue, heap
 *
 * Approach: Use two pointers or sliding window technique
 * Time Complexity: O(n) or O(n log n)
 * Space Complexity: O(n) for hash map
 */

typedef struct {

```

```

} FoodRatings;

FoodRatings* foodRatingsCreate(char** foods, int foodsSize, char** cuisines,
int cuisinesSize, int* ratings, int ratingsSize) {

}

void foodRatingsChangeRating(FoodRatings* obj, char* food, int newRating) {

}

char* foodRatingsHighestRated(FoodRatings* obj, char* cuisine) {

}

void foodRatingsFree(FoodRatings* obj) {

}

/**
 * Your FoodRatings struct will be instantiated and called as such:
 * FoodRatings* obj = foodRatingsCreate(foods, foodsSize, cuisines,
cuisinesSize, ratings, ratingsSize);
 * foodRatingsChangeRating(obj, food, newRating);

 * char* param_2 = foodRatingsHighestRated(obj, cuisine);

 * foodRatingsFree(obj);
 */

```

Go Solution:

```

// Problem: Design a Food Rating System
// Difficulty: Medium
// Tags: array, string, graph, hash, queue, heap
//
// Approach: Use two pointers or sliding window technique
// Time Complexity: O(n) or O(n log n)
// Space Complexity: O(n) for hash map

```

```

type FoodRatings struct {

}

func Constructor(foods []string, cuisines []string, ratings []int)
FoodRatings {

}

func (this *FoodRatings) ChangeRating(food string, newRating int) {

}

func (this *FoodRatings) HighestRated(cuisine string) string {

}

/**
 * Your FoodRatings object will be instantiated and called as such:
 * obj := Constructor(foods, cuisines, ratings);
 * obj.ChangeRating(food,newRating);
 * param_2 := obj.HighestRated(cuisine);
 */

```

Kotlin Solution:

```

class FoodRatings(foods: Array<String>, cuisines: Array<String>, ratings:
IntArray) {

    fun changeRating(food: String, newRating: Int) {

    }

    fun highestRated(cuisine: String): String {

    }

}

```

```

}

/**
 * Your FoodRatings object will be instantiated and called as such:
 * var obj = FoodRatings(foods, cuisines, ratings)
 * obj.changeRating(food,newRating)
 * var param_2 = obj.highestRated(cuisine)
 */

```

Swift Solution:

```

class FoodRatings {

    init(_ foods: [String], _ cuisines: [String], _ ratings: [Int]) {

    }

    func changeRating(_ food: String, _ newRating: Int) {

    }

    func highestRated(_ cuisine: String) -> String {

    }
}

/**
 * Your FoodRatings object will be instantiated and called as such:
 * let obj = FoodRatings(foods, cuisines, ratings)
 * obj.changeRating(food, newRating)
 * let ret_2: String = obj.highestRated(cuisine)
 */

```

Rust Solution:

```

// Problem: Design a Food Rating System
// Difficulty: Medium
// Tags: array, string, graph, hash, queue, heap
//

```

```

// Approach: Use two pointers or sliding window technique
// Time Complexity: O(n) or O(n log n)
// Space Complexity: O(n) for hash map

struct FoodRatings {

}

/**
 * `&self` means the method takes an immutable reference.
 * If you need a mutable reference, change it to `&mut self` instead.
 */
impl FoodRatings {

    fn new(foods: Vec<String>, cuisines: Vec<String>, ratings: Vec<i32>) -> Self
    {

    }

    fn change_rating(&self, food: String, new_rating: i32) {

    }

    fn highest_rated(&self, cuisine: String) -> String {

    }
}

/**
 * Your FoodRatings object will be instantiated and called as such:
 * let obj = FoodRatings::new(foods, cuisines, ratings);
 * obj.change_rating(food, newRating);
 * let ret_2: String = obj.highest_rated(cuisine);
 */

```

Ruby Solution:

```

class FoodRatings

  =begin

```

```

:type foods: String[]
:type cuisines: String[]
:type ratings: Integer[]
=end

def initialize(foods, cuisines, ratings)

end

=begin
:type food: String
:type new_rating: Integer
:rtype: Void
=end
def change_rating(food, new_rating)

end

=begin
:type cuisine: String
:rtype: String
=end
def highest_rated(cuisine)

end

end

# Your FoodRatings object will be instantiated and called as such:
# obj = FoodRatings.new(foods, cuisines, ratings)
# obj.change_rating(food, new_rating)
# param_2 = obj.highest_rated(cuisine)

```

PHP Solution:

```

class FoodRatings {
    /**
     * @param String[] $foods
     * @param String[] $cuisines

```

```

* @param Integer[] $ratings
*/
function __construct($foods, $cuisines, $ratings) {

}

/**
* @param String $food
* @param Integer $newRating
* @return NULL
*/
function changeRating($food, $newRating) {

}

/**
* @param String $cuisine
* @return String
*/
function highestRated($cuisine) {

}
}

/**
* Your FoodRatings object will be instantiated and called as such:
* $obj = FoodRatings($foods, $cuisines, $ratings);
* $obj->changeRating($food, $newRating);
* $ret_2 = $obj->highestRated($cuisine);
*/

```

Dart Solution:

```

class FoodRatings {

  FoodRatings(List<String> foods, List<String> cuisines, List<int> ratings) {

  }

  void changeRating(String food, int newRating) {

```

```

}

String highestRated(String cuisine) {

}

}

/**
 * Your FoodRatings object will be instantiated and called as such:
 * FoodRatings obj = FoodRatings(foods, cuisines, ratings);
 * obj.changeRating(food,newRating);
 * String param2 = obj.highestRated(cuisine);
 */

```

Scala Solution:

```

class FoodRatings(_foods: Array[String], _cuisines: Array[String], _ratings:
Array[Int]) {

def changeRating(food: String, newRating: Int): Unit = {

}

def highestRated(cuisine: String): String = {

}

}

/**
 * Your FoodRatings object will be instantiated and called as such:
 * val obj = new FoodRatings(foods, cuisines, ratings)
 * obj.changeRating(food,newRating)
 * val param_2 = obj.highestRated(cuisine)
 */

```

Elixir Solution:

```

defmodule FoodRatings do

@spec init_(foods :: [String.t], cuisines :: [String.t], ratings ::
[integer]) :: any

```



```

def init_(foods, cuisines, ratings) do

end

@spec change_rating(food :: String.t, new_rating :: integer) :: any
def change_rating(food, new_rating) do

end

@spec highestRated(cuisine :: String.t) :: String.t
def highestRated(cuisine) do

end
end

# Your functions will be called as such:
# FoodRatings.init_(foods, cuisines, ratings)
# FoodRatings.change_rating(food, new_rating)
# param_2 = FoodRatings.highestRated(cuisine)

# FoodRatings.init_ will be called before every test case, in which you can
do some necessary initializations.

```

Erlang Solution:

```

-spec food_ratings_init_(Foods :: [unicode:unicode_binary()], Cuisines ::
[unicode:unicode_binary()], Ratings :: [integer()]) -> any().
food_ratings_init_(Foods, Cuisines, Ratings) ->
.

-spec food_ratings_change_rating(Food :: unicode:unicode_binary(), NewRating
:: integer()) -> any().
food_ratings_change_rating(Food, NewRating) ->
.

-spec food_ratings_highestRated(Cuisine :: unicode:unicode_binary()) ->
unicode:unicode_binary().
food_ratings_highestRated(Cuisine) ->
.

```

```
%% Your functions will be called as such:
%% food_ratings_init_(Foods, Cuisines, Ratings),
%% food_ratings_change_rating(Food, NewRating),
%% Param_2 = food_ratings_highest_rated(Cuisine),

%% food_ratings_init_ will be called before every test case, in which you can
do some necessary initializations.
```

Racket Solution:

```
(define food-ratings%
  (class object%
    (super-new)

    ; foods : (listof string?)
    ; cuisines : (listof string?)
    ; ratings : (listof exact-integer?)
    (init-field
      foods
      cuisines
      ratings)

    ; change-rating : string? exact-integer? -> void?
    (define/public (change-rating food new-rating)
      )

    ; highest-rated : string? -> string?
    (define/public (highest-rated cuisine)
      )))

;; Your food-ratings% object will be instantiated and called as such:
;; (define obj (new food-ratings% [foods foods] [cuisines cuisines] [ratings
ratings]))
;; (send obj change-rating food new-rating)
;; (define param_2 (send obj highest-rated cuisine))
```