

PROBLEMS

SUBMISSIONS

USERS

CONTESTS

ABOUT

HELLO, YAVORYANKOV83.

Inventory Manager

Java May'19 DSA Set&Map 2 - 3 days 00:30:35

Your task is to implement a system that helps a store owner manage his inventory. New items can be added and filtered in the market. Here are the commands that the owner needs to have implemented:

- add ITEM_NAME ITEM_PRICE ITEM_TYPE adds a new item to the system;
 - **ITEM NAME** can be any unique sequence of 3 to 20 characters;
 - ITEM_PRICE can be any positive floating-point number, up to 5000;
 - ITEM_TYPE can be any sequence of 3 to 20 characters and it may not be unique;
 - Prints: "Ok: Item ITEM_NAME added successfully", if the item is added successfully;
 - Prints: "Error: Item ITEM NAME already exists", if the item already exists;
- filter by type ITEM_TYPE lists the first 10 items that have the given ITEM_TYPE;
 - Prints: "Error: Type ITEM_TYPE does not exists", if the given ITEM TYPE is non-existent;
- filter by price from MIN_PRICE to MAX_PRICE lists the first 10 items that have ITEM_PRICE in the given range, inclusive;
- filter by price from MIN_PRICE lists the first 10 items that have a greater ITEM_PRICE than the given, inclusive;
- filter by price to MAX_PRICE lists the first 10 items that have a smaller ITEM_PRICE that the given, inclusive;
- end marks the end of the commands. No commands will follow.

All items that are listed by the **filter** commands must be printed in the following format:

Ok: LIST OF ITEMS

LIST_OF_ITEMS contains the filtered items, separated by a space and a comma (", ") and each item is represented as "ITEM_NAME(ITEM_PRICE)". They must also be sorted by the following criteria:

- First by ITEM_PRICE, ascending
- Then by ITEM_NAME, ascending
- · Last by ITEM_TYPE, ascending

If LIST_OF_ITEMS contains no items, then print "Ok:".

Submit solution

My submissions All submissions Best submissions

✓ Points: 100 (partial)

② Time limit: 0.6s Java: 2.0s

■ Memory limit:

64M

Java: 64M

Author:

martin

Tags
Hash Tables
Difficulty
Intermediate

➤ Allowed languages java



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In the input data is given at the standard input. It consists of a sequence of commands, each at a september of Java May'19 DSA Set&Map 2 - 3 days 00:30:35 command end. The commands will be valid (as described in the above list), in the specified format, when the commands given below. There is no need to check the input data explicitly.

Output

For each command from the input sequence print at the standard output its result as a single line.

Constraints

- All ITEM_NAME and ITEM_TYPE will consist of letters and digits only. No spaces are allowed.
- All filter by price commands will occur no more than 100 times in any test, and approximately 2% of all commands
- The total number of lines in the input will be in the range [1 ... 50 000]

Sample Tests

Input

Сору



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add SmartWatch 1111.90 technology Java May'19 DSA Set&Map 2 - 3 days 00:30:35 add Candy 0.90 food add Lemonade 11.90 drinks add Sweatshirt 121.90 clothes add Pants 49.90 clothes add CowMilk 1.90 dairy add Eggs 2.34 food add Cheese 5.55 dairy filter by type clothes filter by price from 1.00 to 2.00 add FreshOrange 1.99 juice add Aloe 2.7 juice filter by price from 1200 add Socks 2.90 clothes filter by type fruits add DellXPS13 1700.1234 technology filter by price from 1200 filter by price from 1.50 filter by price to 2.00 filter by type clothes end

Output

Сору



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```
Ok: Item SmartWatch added successfully
                                                                          Java May'19 DSA Set&Map 2 - 3 days 00:30:35
Ok: Item Candy added successfully
Ok: Item Lemonade added successfully
Ok: Item Sweatshirt added successfully
Ok: Item Pants added successfully
Error: Item CowMilk already exists
Ok: Item Eggs added successfully
Ok: Item Cheese added successfully
0k: Pants(49.9), Sweatshirt(121.9)
Ok: BulgarianYogurt(1.9), CowMilk(1.9)
Ok: Item FreshOrange added successfully
Ok: Item Aloe added successfully
0k:
Ok: Item Socks added successfully
Error: Type fruits does not exists
Ok: Item DellXPS13 added successfully
0k: DellXPS13(1700.1234)
Ok: BulgarianYogurt(1.9), CowMilk(1.9), FreshOrange(1.99), Eggs(2.34), Aloe(2.7),
Socks(2.9), Cheese(5.55), Lemonade(11.9), Pants(49.9), Sweatshirt(121.9)
Ok: Candy(0.9), BulgarianYogurt(1.9), CowMilk(1.9), FreshOrange(1.99)
Ok: Socks(2.9), Pants(49.9), Sweatshirt(121.9)
```

Clarifications

No clarifications have been made at this time.

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