KYRO Question

**Question:** You are given a list of orders placed by various customers along with the order placed date. Each order contains one or more items. Write a high-quality code to find the two most frequently purchased items by the customers in the last ‘30’ days.

**Example:**

* Order ‘1’ was placed for the item “Watch” 2 months ago.
* Order ‘2’ was placed for the items “Mobile”, “Watch” and “Shoe” 20 days ago.
* Order ‘3’ was placed for the item “Mobile” 10 days ago.
* Order ‘4’ was placed for the item “Shoe” 5 days ago.

Order 1 was placed 2 months ago whereas Order 2, 3 and 4 were placed in the last month. In this case, “Mobile” and “Shoe” should be returned as output are the two most frequently purchased items in the last ‘30’ days.

**Note:**

1. Code can be written in any language of your choice.
2. Code should compile without any issues.
3. Include important test cases to ensure logically bug free and high-quality code.

Good luck!

The code is in code of KYRO.txt file.

**Test case 1: If all the order(s) are within 30 days.**

Do you want to check or print order if yes Type Y/y?

y

For order 1 Please specify the time of order with space in between the number and time of order

10 days

Could you specify items in this order

watch tv fridge

Order '1' was placed for item(s) watch, tv, fridge 10 days ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 2 Please specify the time of order with space in between the number and time of order

5 days

Could you specify items in this order

mobile tv fridge

Order '2' was placed for item(s) mobile, tv, fridge 5 days ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 3 Please specify the time of order with space in between the number and time of order

20 days

Could you specify items in this order

watch

Order '3' was placed for item(s) watch 20 days ago

Is there more orders press 'y' for yes or else 'n' for no?

n

most frequently used item in 30 days are fridge, watch, tv

**Test case 2: If all orders are above 30 days**

Do you want to check or print order if yes Type Y/y:

Y

For order 1 Please specify the time of order with space in between the number and time of order

3 Months

Could you specify items in this order

tv watch mobile

Order '1' was placed for item(s) tv, watch, mobile 3 months ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 2 Please specify the time of order with space in between the number and time of order

65 days

Could you specify items in this order

tv watch mobile

Order '2' was placed for item(s) tv, watch, mobile 65 days ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 3 Please specify the time of order with space in between the number and time of order

55 weeks

Could you specify items in this order

tv watch fridge

Order '3' was placed for item(s) tv, watch, fridge 55 weeks ago

Is there more orders press 'y' for yes or else 'n' for no?

n

No items bought in 30 days

**Test case 3: If we don’t want to order.**

Do you want to check or print order if yes Type Y/y or for NO type N/n:

n

You did not order anything

**Test case 4: If instead of days we put weeks or months.**

Do you want to check or print order if yes Type Y/y or for NO type N/n:

y

For order 1 Please specify the time of order with space in between the number and time of order

1 month

Could you specify items in this order

tv fridge

Order '1' was placed for item(s) tv, fridge 1 month ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 2 Please specify the time of order with space in between the number and time of order

1 week

Could you specify items in this order

fridge mobile

Order '2' was placed for item(s) fridge, mobile 1 week ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 3 Please specify the time of order with space in between the number and time of order

7 months

Could you specify items in this order

jacket

Order '3' was placed for item(s) jacket 7 months ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 4 Please specify the time of order with space in between the number and time of order

4 weeks

Could you specify items in this order

tv

Order '4' was placed for item(s) tv 4 weeks ago

Is there more orders press 'y' for yes or else 'n' for no?

n

most frequently used item in 30 days are tv, fridge

**Test case 5: If items we put in different cases like upper and lower or combined.**

Do you want to check or print order if yes Type Y/y or for NO type N/n:

Y

For order 1 Please specify the time of order with space in between the number and time of order

10 days

Could you specify items in this order

TV Watch

Order '1' was placed for item(s) tv, watch 10 days ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 2 Please specify the time of order with space in between the number and time of order

5 days

Could you specify items in this order

WaTcH mObIlE

Order '2' was placed for item(s) watch, mobile 5 days ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 3 Please specify the time of order with space in between the number and time of order

7 days

Could you specify items in this order

Laptop Mobile tV

Order '3' was placed for item(s) laptop, mobile, tv 7 days ago

Is there more orders press 'y' for yes or else 'n' for no?

n

most frequently used item in 30 days are watch, tv, mobile

**Test case 6: If we fumble during number of days or put something else.**

Do you want to check or print order if yes Type Y/y or for NO type N/n:

Y

For order 1 Please specify the time of order with space in between the number and time of order

yyy

Please enter the date or days as this example: 30 days or 2 months or 4 weeks. Try again

For order 1 Please specify the time of order with space in between the number and time of order

hello

Please enter the date or days as this example: 30 days or 2 months or 4 weeks. Try again

For order 1 Please specify the time of order with space in between the number and time of order

10days

Please enter the date or days as this example: 30 days or 2 months or 4 weeks. Try again

For order 1 Please specify the time of order with space in between the number and time of order

1month

Please enter the date or days as this example: 30 days or 2 months or 4 weeks. Try again

For order 1 Please specify the time of order with space in between the number and time of order

5weeks

Please enter the date or days as this example: 30 days or 2 months or 4 weeks. Try again

For order 1 Please specify the time of order with space in between the number and time of order

10 days

Could you specify items in this order

tv

Order '1' was placed for item(s) tv 10 days ago

Is there more orders press 'y' for yes or else 'n' for no?

n

Recent bought items in 30 days are tv

**Test case 7: If no items are repeating.**

Do you want to check or print order if yes Type Y/y or for NO type N/n:

y

For order 1 Please specify the time of order with space in between the number and time of order

10 days

Could you specify items in this order with space in between each item

yoyo

Order '1' was placed for item(s) yoyo 10 days ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 2 Please specify the time of order with space in between the number and time of order

20 days

Could you specify items in this order with space in between each item

tv

Order '2' was placed for item(s) tv 20 days ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 3 Please specify the time of order with space in between the number and time of order

2 week

Could you specify items in this order with space in between each item

watch

Order '3' was placed for item(s) watch 2 week ago

Is there more orders press 'y' for yes or else 'n' for no?

n

Recent bought items in 30 days are watch, yoyo, tv

**Test case 8: The given example.**

Do you want to check or print order if yes Type Y/y or for NO type N/n:

y

For order 1 Please specify the time of order with space in between the number and time of order

2 months

Could you specify items in this order with space in between each item

watch

Order '1' was placed for item(s) watch 2 months ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 2 Please specify the time of order with space in between the number and time of order

20 days

Could you specify items in this order with space in between each item

mobile watch shoe

Order '2' was placed for item(s) mobile, watch, shoe 20 days ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 3 Please specify the time of order with space in between the number and time of order

10 days

Could you specify items in this order with space in between each item

mobile

Order '3' was placed for item(s) mobile 10 days ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 4 Please specify the time of order with space in between the number and time of order

5 days

Could you specify items in this order with space in between each item

shoe

Order '4' was placed for item(s) shoe 5 days ago

Is there more orders press 'y' for yes or else 'n' for no?

n

most frequently used item in 30 days are mobile, shoe

**Test case 9: 10 or more orders.**

Do you want to check or print order if yes Type Y/y or for NO type N/n:

y

For order 1 Please specify the time of order with space in between the number and time of order

10 days

Could you specify items in this order with space in between each item

watch

Order '1' was placed for item(s) watch 10 days ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 2 Please specify the time of order with space in between the number and time of order

11 days

Could you specify items in this order with space in between each item

tv watch

Order '2' was placed for item(s) tv, watch 11 days ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 3 Please specify the time of order with space in between the number and time of order

12 days

Could you specify items in this order with space in between each item

mobile tv

Order '3' was placed for item(s) mobile, tv 12 days ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 4 Please specify the time of order with space in between the number and time of order

2 weeks

Could you specify items in this order with space in between each item

tv mobile

Order '4' was placed for item(s) tv, mobile 2 weeks ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 5 Please specify the time of order with space in between the number and time of order

2 months

Could you specify items in this order with space in between each item

tv

Order '5' was placed for item(s) tv 2 months ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 6 Please specify the time of order with space in between the number and time of order

3 weeks

Could you specify items in this order with space in between each item

watch

Order '6' was placed for item(s) watch 3 weeks ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 7 Please specify the time of order with space in between the number and time of order

1 month

Could you specify items in this order with space in between each item

watch

Order '7' was placed for item(s) watch 1 month ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 8 Please specify the time of order with space in between the number and time of order

15 days

Could you specify items in this order with space in between each item

tv mobile

Order '8' was placed for item(s) tv, mobile 15 days ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 9 Please specify the time of order with space in between the number and time of order

9 days

Could you specify items in this order with space in between each item

tv yoyo

Order '9' was placed for item(s) tv, yoyo 9 days ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 10 Please specify the time of order with space in between the number and time of order

15 days

Could you specify items in this order with space in between each item

tv fridge

Order '10' was placed for item(s) tv, fridge 15 days ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 11 Please specify the time of order with space in between the number and time of order

15 days

Could you specify items in this order with space in between each item

tv

Order '11' was placed for item(s) tv 15 days ago

Is there more orders press 'y' for yes or else 'n' for no?

n

most frequently used item in 30 days are watch, tv, mobile

**Test case 10: More than 1 space in between days and number.**

Do you want to check or print order if yes Type Y/y or for NO type N/n:

y

For order 1 Please specify the time of order with space in between the number and time of order

10 months

Could you specify items in this order with space in between each item

tv watch

Order '1' was placed for item(s) tv, watch 10 months ago

Is there more orders press 'y' for yes or else 'n' for no?

y

For order 2 Please specify the time of order with space in between the number and time of order

1 week

Could you specify items in this order with space in between each item

mobile

Order '2' was placed for item(s) mobile 1 week ago

Is there more orders press 'y' for yes or else 'n' for no?

n

Recent bought items in 30 days are mobile