KYRO questions :

**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.

Answer: code of KYRO using file.txt

File: sample.txt

**Test case 1: All days are within 30 days.**

**Input:**

Order ‘1’ was placed for the item “Watch” 1 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 “Fridge” 5 days ago.

**Output:**

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

Y

Order ‘1’ was placed for the item “Watch” 1 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 “Fridge” 5 days ago.

most frequently used item in 30 days are “Watch”, “Mobile”

**Test case 2: All days are above 30 days.**

**Input**

Order ‘1’ was placed for the item “Watch” 2 months ago.

Order ‘2’ was placed for the items “Mobile”, “Watch” and “Shoe” 120 days ago.

Order ‘3’ was placed for the item “Mobile” 110 days ago.

Order ‘4’ was placed for the item “Fridge” 51 days ago.

**Output**

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

y

Order ‘1’ was placed for the item “Watch” 2 months ago.

Order ‘2’ was placed for the items “Mobile”, “Watch” and “Shoe” 120 days ago.

Order ‘3’ was placed for the item “Mobile” 110 days ago.

Order ‘4’ was placed for the item “Fridge” 51 days ago.

No items bought in 30 days

**Test case 3: No orders in file.**

**Input**

**Output**

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

y

You did not order anything

**Test case 4: No to option of order.**

**Input**

**Output**

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 5: Instead of days we put weeks or months.**

**Input**

Order ‘1’ was placed for the item “Watch” 2 months ago.

Order ‘2’ was placed for the items “Mobile”, “Watch” and “Shoe” 1 week ago.

Order ‘3’ was placed for the item “Mobile” 11 Month ago.

Order ‘4’ was placed for the item “Fridge” 2 Weeks ago.

**Output**

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

y

Order ‘1’ was placed for the item “Watch” 2 months ago.

Order ‘2’ was placed for the items “Mobile”, “Watch” and “Shoe” 1 week ago.

Order ‘3’ was placed for the item “Mobile” 11 Month ago.

Order ‘4’ was placed for the item “Fridge” 2 Weeks ago.

Recent bought items in 30 days are “Mobile”, “Shoe”, “Fridge”, “Watch”

**Test case 6: If items are in different cases.**

**Input**

Order ‘1’ was placed for the item “Watch” 1 months ago.

Order ‘2’ was placed for the items “mobile”, “WaTcH” and “ShoE” 1 week ago.

Order ‘3’ was placed for the item “MoBiLe” 11 Month ago.

Order ‘4’ was placed for the item “ShOe” 2 Weeks ago.

**Output**

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

y

Order ‘1’ was placed for the item “Watch” 1 months ago.

Order ‘2’ was placed for the items “mobile”, “WaTcH” and “ShoE” 1 week ago.

Order ‘3’ was placed for the item “MoBiLe” 11 Month ago.

Order ‘4’ was placed for the item “ShOe” 2 Weeks ago.

most frequently used item in 30 days are “shoe”, “watch”

**Test case 7: If we don’t put space between number of days and the word days or month or week.**

**Input**

Order ‘1’ was placed for the item “Watch” 1months ago.

Order ‘2’ was placed for the items “mobile”, “WaTcH” and “ShoE” 1 week ago.

Order ‘3’ was placed for the item “MoBiLe” 11 Month ago.

Order ‘4’ was placed for the item “ShOe” 2Weeks ago.

**Output**

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

y

Order ‘1’ was placed for the item “Watch” 1months ago.

Give input as such => Order x was placed for the item Watch 12 months ago.

Give input as such => Order x was placed for the item Watch 10 Days ago.

Please check order ‘1’ and change it as shown above

Order ‘2’ was placed for the items “mobile”, “WaTcH” and “ShoE” 1 week ago.

Order ‘3’ was placed for the item “MoBiLe” 11 Month ago.

Order ‘4’ was placed for the item “ShOe” 2Weeks ago.

Give input as such => Order x was placed for the item Watch 12 months ago.

Give input as such => Order x was placed for the item Watch 10 Days ago.

Please check order ‘4’ and change it as shown above

There are 2 errors in file

**Test case 8: If the items don’t repeat.**

**Input**

Order ‘1’ was placed for the item “Watch” 1 months ago.

Order ‘2’ was placed for the items “mobile”, “Fridge” and “Jacket” 1 week ago.

Order ‘3’ was placed for the item “Key” 11 Month ago.

Order ‘4’ was placed for the item “ShOe” 2 Weeks ago.

**Output**

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

y

Order ‘1’ was placed for the item “Watch” 1 months ago.

Order ‘2’ was placed for the items “mobile”, “Fridge” and “Jacket” 1 week ago.

Order ‘3’ was placed for the item “Key” 11 Month ago.

Order ‘4’ was placed for the item “ShOe” 2 Weeks ago.

Recent bought items in 30 days are “shoe”, “fridge”, “watch”, “mobile”, “jacket”

**Test case 9: The given example.**

**Input**

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.

**Output**

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

y

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.

most frequently used item in 30 days are “shoe”, “mobile”

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

**Input**

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 ‘5’ was placed for the item “Watch” 3 months ago.

Order ‘6’ was placed for the item “Pocket” 2 months ago.

Order ‘7’ was placed for the item “Mobile” 1 months ago.

Order ‘8’ was placed for the item “Shoe” 2 weeks ago.

Order ‘9’ was placed for the item “Laptop” 09 days ago.

Order ‘10’ was placed for the item “computer” 2 months ago.

**Output**

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

y

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 ‘5’ was placed for the item “Watch” 3 months ago.

Order ‘6’ was placed for the item “Pocket” 2 months ago.

Order ‘7’ was placed for the item “Mobile” 1 months ago.

Order ‘8’ was placed for the item “Shoe” 2 weeks ago.

Order ‘9’ was placed for the item “Laptop” 09 days ago.

Order ‘10’ was placed for the item “computer” 2 months ago.

most frequently used item in 30 days are “mobile”, “shoe”

**Test case 11: More than 1 space in between days and number.**

**Input**

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 ‘5’ was placed for the item “Watch” 3 months ago.

Order ‘6’ was placed for the item “Pocket” 2 months ago.

Order ‘7’ was placed for the item “Mobile” 1 months ago.

Order ‘8’ was placed for the item “Shoe” 2 weeks ago.

Order ‘9’ was placed for the item “Laptop” 09 days ago.

Order ‘10’ was placed for the item “computer” 2 months ago.

**Output**

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

y

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 ‘5’ was placed for the item “Watch” 3 months ago.

Order ‘6’ was placed for the item “Pocket” 2 months ago.

Order ‘7’ was placed for the item “Mobile” 1 months ago.

Order ‘8’ was placed for the item “Shoe” 2 weeks ago.

Order ‘9’ was placed for the item “Laptop” 09 days ago.

Order ‘10’ was placed for the item “computer” 2 months ago.

most frequently used item in 30 days are “mobile”, “shoe”

**Test case 12: File name is given wrong.**

**Input**

Instead of sample.txt we give sampler.txt which is not present in directory or folder

**Output**

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

y

Please check the file is correct or not or in right directory [Errno 2] No such file or directory: 'sampler.txt'