Q1:

Consider two HashMaps. First one containing the product name and product category code as key and value respectively.

Second HashMap contains the product name and the units sold.

Write a java function which accepts the two hash maps and return the names of products in each category which is having the highest number of units sold.

Sample Input n Output

Input1 :{"lux":"soap","colgate":"paste", "pears":"soap","sony":"electronics","samsung":"electronics"}

Input2 :{"lux":1000,"colgate":500,"pears":2000,"sony":100," samsung",600}

Output: {"pears","colgate","samsung"}

Q2:

A sales company keeps track of the product purchased and sold.

The company needs to make sure that the sale date is always after the purchase date.

Both the dates must be either in "dd/MM/yyyy" or "dd-MM-yyyy" format.

Print "Valid" if the format is followed and sale date is after purchase date else "Invalid".

Input 1 is purchase date and Input 2 is sale date

Sample Input

12/04/2018

17-04-2018

Sample Output

Valid

Sample Input

12.04.2018

17-04-2018

Sample Output

Invalid

Q3:

A company requires each employee to maintain a secret code.

The secret code needs to pass certain validation for getting accepted. The validation rules are as given

a. The secret code should be six characters’ long

b. The first three characters should be cod

c. There should be at least one digit in the code

d. The first character should always be an upper case letter

e. The code should contain only alphabets and digits.

f. The number of upper case letters should be greater than lower case letters.

Print "Valid" if the above validation is passed else "Invalid".

Sample Input

CoD12f

Sample Output

Valid

Sample Input

Cod12f

Sample Output

Invalid

Q4: