

Exercitiul 1

```
#pentru input
#12 -1 345 -1 2 3 -1 12 345 5
#-1 13 14 -1 -1 17 345 2

#a)

sir1 = [int(x) for x in input().split()]
sir2 = [int(x) for x in input().split()]

#b)

[print(x, end = " ") for x in sorted(set(sir1)&set(sir2), reverse =
True)]

#c)

T = tuple([x for x in set(sir1)&set(sir2) if x >= 0])
print()
print(T)

#d)

ls = list(map(lambda x: int(str(x)[:2]), T))      #observatie: lambda nu
are efectul dorit pentru numere negative
print(ls)                                         #Solutie: nu ne
intereseaza, orice numar din T este pozitiv :)

12 -1 345 -1 2 3 -1 12 345 5
-1 13 14 -1 -1 17 345 2
345 2 -1
(345, 2)
['34', '2']
```

Exercitiul 2

```
#o modificare pe care am facut-o la fisierul original
#a fost sa adaug o virgula (care parea ca lipseste) dupa codul
produsului

#subpunctul a)

f = open("date2.txt")
ls = [x.split(", ") for x in [y.strip() for y in f.readlines()]]
d = {lista[1]:{} for lista in ls}
for e in ls:
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a = d[e[1]].get(e[2], [])
c = e[3:]
c.insert(0, e[0])
a.append(c)
d[e[1]][e[2]] = a
f.close()
print(d)

#subpunctul b)

for x in d:
    print(x, end="\t")
    for c in d[x]:
        print(c, end=" ")
        ls = min(d[x][c], key = lambda e: float(e[2][:len(e[2]) - 4]))
        print(", ".join(ls))
        print("\t", end="")
        print()
    print()

#subpunctul c)

def creare_fisier(ls, d):
    for sir in ls:
        nume = '.txt'.join([sir, ""]) #un pic mai eficient, dar echivalent, cu sir + ".txt"
        f = open(nume, 'w')
        for x in d:
            if sir in d[x]:
                for ls in d[x][sir]:
                    f.write(" ".join(ls))
                    f.write("\n")
        f.close()
creare_fisier(["lactate", "dulciuri", "mirodenii"], d)

#subpunctul d)

import re

def marca(sir):
    return re.findall('[A-Z][a-z]+', open(sir).read())

print(marca("mirodenii.txt"))

{'bacanie': {'lactate': [['12A3', 'cascaval Napolact 25g', '15.90 RON'], ['834A', 'branza cu mucegai Bavaria 150g', '15.90 RON']], 'mezeluri': [['894B', 'salam Rustika 500g', '45.90 RON', 'discount 15%']], 'mirodenii': [['98TG', 'cafea macinata Jacobs 500g', '32.99 RON'], ['67DF', 'set 10 capsule ceai verde', '16.90 RON', 'data de expirare apropiata']], 'dulciuri': [['98AF', 'baton Snickers 8x50g',
```

'23.99 RON'], ['AJ67', 'praline cu crema de menta Midnight 200g', '16.90 RON', 'discount 5%]], 'fashion': {'incaltaminte': [['12AB', 'pantofi sport MirageSportTech', '239.00 RON']], 'imbracaminte': [['13F7', 'tricou de bumbac Puma cu imprimeu logo essential', '74.99 RON', 'gri inchis/negru']]}}

bacanie lactate 12A3, cascaval Napolact 25g, 15.90 RON

mezeluri 894B, salam Rustika 500g, 45.90 RON, discount 15%

mirodenii 67DF, set 10 capsule ceai verde, 16.90 RON, data de expirare apropiata

dulciuri AJ67, praline cu crema de menta Midnight 200g, 16.90 RON, discount 5%

fashion incaltaminte 12AB, pantofi sport MirageSportTech, 239.00 RON

imbracaminte 13F7, tricou de bumbac Puma cu imprimeu logo essential, 74.99 RON, gri inchis/negru

['Jacobs']