1. Resuelve los siguientes ejercicios utilizando el mapa definido a continuación.

. Resuelve los siguientes ejercicios utilizando el mapa definido a continuación.

a) Crea un mapa que contenga los datos del archivo paises.csv en el año 2013 Clave: El nombre del país Valor: La expectativa de vida

In [6]:
```python
import csv
from mapas import mapa

def leer():
    file=open('paises.csv')
    lector=csv.reader(file)
    return lector

lista2013=[x for x in leer() if x[2]=='2013']
#print(lista2013)
mapa2013=mapa()

for elem in lista2013:
    pais=str(elem[0])
    expect=float(elem[1])
    mapa2013[pais]=expect
    #mapa2013[0]=elem[0]
    #mapa2013[1]=elem[1]
    g = (str("%.3f"%mapa2013[pais]))
    print(mapa2013.getKey(pais) + "= \t \t \t  " + g)
```

```
Canada=                            81.238
Sao Tome and Principe=                      66.135
Lao PDR=                          67.806
Arab World=                       69.950
Latin America & Caribbean (all income levels)=            74.639
Cambodia=                         71.409
Ethiopia=                         62.966
Aruba=                  75.207
Sri Lanka=                        74.068
Swaziland=                        48.851
South Asia=                       66.645
Argentina=                        76.013
Bolivia=                          66.927
Bahamas, The=                     74.914
Burkina Faso=                     55.862
Bahrain=                          76.536
Saudi Arabia=                     75.497
Middle East & North Africa (all income levels)=          72.
187
Guatemala=                        71.664
Guinea=                           55.845
World=                  70.779
St. Lucia=                        74.674
Congo, Rep.=                      58.297
Spain=                  82.378
Liberia=                          60.206
Maldives=                         77.574
East Asia & Pacific (all income levels)=                 74.733
Oman=                   76.591
Tanzania=                         60.846
Cabo Verde=                       74.544
Gabon=                  63.074
European Union=                        80.544
Jamaica=                          73.282
Albania=                          77.350
United Arab Emirates=                  76.958
Guam=                   78.619
India=                  66.211
Madagascar=                       64.249
Lesotho=                          48.836
OECD members=                     79.955
Pacific island small states=               69.683
Turkey=                           74.862
Virgin Islands (U.S.)=                 79.473
Venezuela, RB=                    74.488
Bangladesh=                       70.295
Solomon Islands=                       67.507
Lebanon=                          79.846
Mongolia=                         67.339
France=                           82.566
Syrian Arab Republic=                  74.711
Rwanda=                           63.493
Somalia=                          54.691
Peru=                   74.516
Vanuatu=                          71.411
Cote d'Ivoire=                    50.402
Benin=                  59.119
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Other small states=                             59.535
Cuba=                           79.067
Cameroon=                       54.588
Low & middle income=                            68.853
Togo=                           56.150
China=                          75.200
Dominican Republic=                             73.233
Germany=                        80.893
Ghana=                          60.947
Tonga=                          72.489
Indonesia=                      70.607
Latin America & Caribbean (developing only)=                            74.462
Colombia=                       73.777
Libya=                          75.176
Finland=                        80.627
Central African Republic=                       49.475
North America=                  78.990
Vietnam=                        75.607
Kenya=                          61.083
Korea, Dem. Rep.=                               69.501
Bulgaria=                       74.315
Mauritius=                      73.566
Romania=                        74.563
Angola=                         51.464
Central Europe and the Baltics=                             76.046
Egypt, Arab Rep.=                               70.907
South Africa=                   56.098
St. Vincent and the Grenadines=                             72.401
Fiji=                           69.745
Caribbean small states=                         71.799
Brunei Darussalam=                              78.373
Middle income=                  70.076
Austria=                        80.937
High income: OECD=                              80.685
Mozambique=                     49.836
Uganda=                         58.648
Japan=                          83.096
Niger=                          57.966
United States=                  78.741
Afghanistan=                    60.509
Kuwait=                         74.359
Panama=                         77.368
Mali=                           54.604
Costa Rica=                     79.705
Euro area=                      81.614
Ireland=                        80.895
Pakistan=                       66.436
Nigeria=                        52.109
Lower middle income=                            66.209
Ecuador=                        76.193
Australia=                      82.095
Algeria=                        70.882
Chile=                          79.573
Puerto Rico=                    78.536
Belize=                         73.699
Fragile and conflict affected situations=                             59.959
Sierra Leone=                   45.329
```

```
East Asia & Pacific (developing only)=                    73.822
Denmark=                        80.051
Philippines=                    68.554
Portugal=                       80.373
Morocco=                        70.643
Namibia=                        63.881
French Polynesia=                          76.129
Guinea-Bissau=                  54.034
Kiribati=                       68.532
Switzerland=                    82.698
Grenada=                        72.610
Chad=                50.701
Uruguay=                        76.908
Equatorial Guinea=                         52.613
Korea, Rep.=                    81.368
Djibouti=                       61.304
Antigua and Barbuda=                       75.665
Low income=                     61.619
High income=                    79.295
Burundi=                        53.629
Least developed countries: UN classification=               61.125
Cyprus=                         79.637
Barbados=                       75.132
Qatar=               78.454
Italy=               82.937
Sudan=               61.864
Sub-Saharan Africa (developing only)=               56.442
Singapore=                      82.144
Malta=               80.746
Netherlands=                    81.105
Suriname=                       70.811
Iran, Islamic Rep.=                        73.763
Israel=                         81.705
Malaysia=                       74.842
Iceland=                        82.917
Zambia=                         57.023
Sub-Saharan Africa (all income levels)=               56.439
Senegal=                        63.202
Papua New Guinea=                          62.299
Malawi=                         54.724
Zimbabwe=                       58.046
Jordan=                         73.747
Poland=                         76.798
Mauritania=                     61.351
Small states=                   63.203
New Caledonia=                  76.253
Trinidad and Tobago=                       69.817
Hungary=                        75.063
Honduras=                       73.493
Myanmar=                        64.932
Mexico=                         77.135
Tunisia=                        75.100
Nicaragua=                      74.465
Congo, Dem. Rep.=                          49.623
Comoros=                        60.644
United Kingdom=                            81.500
Gambia, The=                    58.607
```

```
High income: nonOECD=                              73.443
Greece=                              80.634
Paraguay=                            72.194
Botswana=                            46.991
Heavily indebted poor countries (HIPC)=                      58.241
```

b) Obtén y mustra la expectativa de vida en Mexico, Guatemala, Belize, El Salvador y Nicaragua.

```
In [33]: mapaAll=mapa()
         listaAll=[x for x in leer()]

         for elem in listaAll:
             pais=str(elem[0])
             expect=float(elem[1])
             mapaAll[pais]=expect

         print('México: ' , "%.3f"%mapaAll['Mexico'])
         print('Guatemala: ' , "%.3f"%mapaAll['Guatemala'])
         print('Belize: ' , "%.3f"%mapaAll['Belize'])
         print('El Salvador: ' , "%.3f"%mapaAll['El Salvador'])
         print('Nicaragua: ' , "%.3f"%mapaAll['Nicaragua'])
```

```
México:  77.135
Guatemala:  71.664
Belize:  73.699
El Salvador:  67.502
Nicaragua:  74.465
```

C)Encuentra la expectativa de vida para cada uno de los paises anteriores.

```
In [34]: mapaAll=mapa()
         listaAll=[x for x in leer()]

         for elem in listaAll:
             pais=str(elem[0])
             expect=float(elem[1])
             mapaAll[pais]=expect

         print('México: ' , "%.3f"%mapaAll['Mexico'])
         print('Guatemala: ' , "%.3f"%mapaAll['Guatemala'])
         print('Belize: ' , "%.3f"%mapaAll['Belize'])
         print('El Salvador: ' , "%.3f"%mapaAll['El Salvador'])
         print('Nicaragua: ' , "%.3f"%mapaAll['Nicaragua'])
```

```
México:  77.135
Guatemala:  71.664
Belize:  73.699
El Salvador:  67.502
Nicaragua:  74.465
```

d) Obten la lista de todas las claves del mapa.

In [35]:
```python
listaAll=[x for x in leer()]

for elem in listaAll:
    pais=str(elem[0])
    print(mapaAll.getKey(pais))
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e) Filtra la lista anterior para mostrar sólo los paises que empiezan con Ç"

```
In [39]: listaAll=[x for x in leer()]

         for elem in listaAll:

             chara = elem[0]
             cont=0

             if elem[0]!=pais:
                 if chara[0] =='C':
                 #if cont==0:
                     pais = str(elem[0])
                     print(mapaAll.getKey(pais))
```

```
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Cambodia
Congo, Rep.
Cabo Verde
Cote d'Ivoire
Cuba
Cameroon
China
Colombia
Central African Republic
Central Europe and the Baltics
Caribbean small states
Costa Rica
Chile
Chad
Cyprus
Congo, Dem. Rep.
Comoros
```

f) Calcula el promedio de expectativa de vida para todos los paises que empiezan con C.

```
In [45]: listaAll=[x for x in leer()]

         suma=0
         prom=0
         paises=0
         for elem in listaAll:
             chara = elem[0]
             cont=0

             if elem[0]!=pais:
                 if chara[0] =='C':
                 #if cont==0:
                     pais = str(elem[0])
                     expect=float(elem[1])
                     mapaAll[pais]=expect
                     suma = suma + expect
                     paises=paises+1

         prom=(suma / paises)
         g= str("%.3f"%prom)
         print("Promedio de expect de países con 'C' : " + g)

         Promedio de expect de países con 'C' : 59.084
```

2. Resuelve los ejercicios utilizando el mapa definido a continuación

Feeling of Power Isaac Asimov Jehan Shuman was used to dealing with the men in authority on long-embattled earth. He was only a civilian but he originated programming patterns that resulted in self-directing war computers of the highest sort. Generals, consequently listened to him. Heads of congressional committees too. There was one of each in the special lounge of New Pentagon. General Weider was space-burned and had a small mouth puckered almost into a cipher. He smoked Denebian tobacco with the air of one whose patriotism was so notorious, he could be allowed such liberties. Shuman, tall, distinguished, and Programmer-first-class, faced them fearlessly. He said, "This, gentlemen, is Myron Aub." 1 "The one with the unusual gift that you discovered quite by accident," said Congressman Brant placidly. "Ah." He inspected the little man with the egg-bald head with amiable curiosity. The little man, in return, twisted the fingers of his hands anxiously. He had never been near such great men before. He was only an aging low-grade technician who had long ago failed all tests designed to smoke out the gifted ones among mankind and had settled into the rut of unskilled labor. There was just this hobby of his that the great Programmer had found out about and was now making such a frightening fuss over. General Weider said, "I find this atmosphere of mystery childish." "You won't in a moment," said Shuman. "This is not something we can leak to the firstcomer. Aub!" There was something imperative about his manner of biting off that one-syllable name, but then he was a great Programmer speaking to a mere technician. "Aub! How much is nine times seven?" Aub hesitated a moment. His pale eyes glimmered with a feeble anxiety. "Sixty-three," he said. Congressman Brant lifted his eyebrows. "Is that right?" "Check it for yourself, Congressman." The congressman took out his pocket computer, nudged the milled edges twice, looked at its face as it lay there in the palm of his hand, and put it back. He said, "Is this the gift you brought us here to demonstrate. An illusionist?" "More than that, sir. Aub has memorized a few operations and with them he computes on paper." "A paper computer?" said the general. He looked pained.

a) Crea un mapa, analizando el texto al inicio de este ejercicio, que tenga como valores: Clave: Una letra minúscula Valor: Las veces que aparece esa letra, ya sea mayúscula o minúscula en el texto

In [28]:
```python
def leers():
    file=open('txt.txt')
    lector=file.read().lower()
    return lector

listaAll=[x for x in leers()]

mapaTemp=mapa()
letras='abcdefghijklmnopqrstuvwxyz'

listText=[x for x in leers()]
listLetras=[x for x in letras]
listCont=[x for x in range(0,27)]

for x in listCont:
    listCont[x]=0

i=0
for letra in letras:
    for elem in listText:
        if letra ==elem:
            listCont[i]=listCont[i]+1
    i =i+1


i=0
for elem in listLetras:
    times= int (listCont[i])
    letras=str(elem)
    mapaTemp[letras]=times
    print("La letra: {0} \t se repite: {1} veces.".format(mapaTemp.getKey(letr
as),str((mapaTemp[letras]))))
    i=i+1
```

```
La letra: a        se repite: 152 veces.
La letra: b        se repite: 31 veces.
La letra: c        se repite: 47 veces.
La letra: d        se repite: 70 veces.
La letra: e        se repite: 221 veces.
La letra: f        se repite: 36 veces.
La letra: g        se repite: 52 veces.
La letra: h        se repite: 111 veces.
La letra: i        se repite: 133 veces.
La letra: j        se repite: 2 veces.
La letra: k        se repite: 14 veces.
La letra: l        se repite: 68 veces.
La letra: m        se repite: 65 veces.
La letra: n        se repite: 123 veces.
La letra: o        se repite: 119 veces.
La letra: p        se repite: 31 veces.
La letra: q        se repite: 2 veces.
La letra: r        se repite: 88 veces.
La letra: s        se repite: 125 veces.
La letra: t        se repite: 160 veces.
La letra: u        se repite: 55 veces.
La letra: v        se repite: 7 veces.
La letra: w        se repite: 34 veces.
La letra: x        se repite: 3 veces.
La letra: y        se repite: 23 veces.
La letra: z        se repite: 1 veces.
```

b) Imprime cuántas vocales hay en el texto

In [29]:
```python
i=0

for elem in listText:
    if elem =='a' or elem == 'e' or elem == 'i' or elem == 'o' or elem == 'u':
        i=i+1

print("Número de vocales en el texto: " + str(i))
```

Número de vocales en el texto: 680

c) Imprime cada pareja del mapa, en forma clave:valor

```
In [31]:  i = 0

          for elem in listLetras:
              letras = str(elem)
              print("Clave: {0} valor:
          {1}".format(mapaTemp.getKey(letras),str(mapaTemp[letras])))
```

```
Clave: a valor: 152
Clave: b valor: 31
Clave: c valor: 47
Clave: d valor: 70
Clave: e valor: 221
Clave: f valor: 36
Clave: g valor: 52
Clave: h valor: 111
Clave: i valor: 133
Clave: j valor: 2
Clave: k valor: 14
Clave: l valor: 68
Clave: m valor: 65
Clave: n valor: 123
Clave: o valor: 119
Clave: p valor: 31
Clave: q valor: 2
Clave: r valor: 88
Clave: s valor: 125
Clave: t valor: 160
Clave: u valor: 55
Clave: v valor: 7
Clave: w valor: 34
Clave: x valor: 3
Clave: y valor: 23
Clave: z valor: 1
```

d) Imprime una lista que contenga, para cada letra de la a a la z, si está o no está en el texto. Ejemplo: a: sí

In [33]:
```python
i = 0

for elem in listLetras:
    letras = str(elem)
    if mapaTemp[letras]!=0:
        print(mapaTemp.getKey(letras) + ":Sí")
    else:
        print(mapaTemp.getKey(letras) + ":No")
    i=i+1
```

```
a:Sí
b:Sí
c:Sí
d:Sí
e:Sí
f:Sí
g:Sí
h:Sí
i:Sí
j:Sí
k:Sí
l:Sí
m:Sí
n:Sí
o:Sí
p:Sí
q:Sí
r:Sí
s:Sí
t:Sí
u:Sí
v:Sí
w:Sí
x:Sí
y:Sí
z:Sí
```

In [ ]: