CIS 41B – Lab 0: Review CIS 41A concepts

Write a program that works with the population census of cities of Santa Clara County.

Input file  
The input file is cities.csv ([source](https://www.citypopulation.de/en/usa/california/06085__santa_clara/)). Each line of the file is data for 1 city in Santa Clara.

Each line is in the format: city name, 2000 census population, 2010 census population, 2020 census population

Lab requirement

1. Start with the file lab0.py, which already has code to create a class named Cities and code to call the printYear method to print the population of each city in a certain year.   
   The code in main should work as is, you should not have to change it or add to it.
2. Add the Cities class such that it will read in data from the input file and provide the printYear method.  
   The file should be read in one time only (don’t keep reading the file).
3. Add exception handing to end the program if the input file can’t be opened successfully.
4. When printing the year, use formatting so that there are 2 columns of output: city name population  
   As an optional extra challenge, don’t use an if statement in the printYear method. There’s a more efficient way.

1. Add a docstring for the Cities class and for the public method printYear.

Expected output when the code in main runs:

Year 2020

Campbell 44080

Cupertino 60575

Gilroy 59669

Los Altos 31706

Los Altos Hills 8540

Los Gatos 33587

Milpitas 80275

Monte Sereno 3498

Morgan Hill 45558

Mountain View 82592

Palo Alto 68724

San Jose 1014545

Santa Clara 127452

Saratoga 31164

Sunnyvale 156291

Year 2000

Campbell 40224

Cupertino 52656

Gilroy 41229

Los Altos 28063

Los Altos Hills 8474

Los Gatos 29848

Milpitas 62679

Monte Sereno 3464

Morgan Hill 33731

Mountain View 71255

Palo Alto 58623

San Jose 903937

Santa Clara 102670

Saratoga 29993

Sunnyvale 130873

Year 10

10 is not a valid census year

Year a

a is not a valid census year