Introduction

The first step in most data analytics projects is reading the data file. In this exercise, you'll create Series and DataFrame objects, both by hand and by reading data files.

Run the code cell below to load libraries you will need.

```
import pandas as pd
pd.set_option('display.max_rows', 5)
```

Exercises

v 1.

In the cell below, create a DataFrame fruits that looks like this:

	Apples	Bananas			
0	30	21			

Your code goes here. Create a dataframe matching the above diagram and assign it to the variable fruits. pd.DataFrame({'Apples':[30],'Bananas':[21]})



< 2.

Create a dataframe fruit_sales that matches the diagram below:

	Apples	Bananas
2017 Sales	35	21
2018 Sales	41	34

Your code goes here. Create a dataframe matching the above diagram and assign it to the variable fruit_sales.
fruit_sales = pd.DataFrame({'Apples':[35,41],'Bananas':[21,34]},index=['2017 Sales','2018 Sales'])
fruit_sales

	Apples	Bananas	
2017 Sales	35	21	11.
2018 Sales	41	34	+/9



v 3.

Create a variable ingredients with a Series that looks like:

```
Flour 4 cups
Milk 1 cup
Eggs 2 large
Spam 1 can
```

Name: Dinner, dtype: object

ingredients = pd.Series(['4 cups','1 cup','2 large','1 can'],index=['Flour','Milk','Eggs','Spam'],name='Dinner')
ingredients



dtype: object

~ 4.

Read the csv dataset of wine reviews into a DataFrame called reviews:

reviews = pd.read_csv('wine-reviews.csv',index_col=0)
reviews

		country	description	designation	points	price	province	region_1	region_2	taster_name	taster_twitter_handle	tit]
•	0	Italy	Aromas include tropical fruit, broom, brimston	Vulkà Bianco	87	NaN	Sicily & Sardinia	Etna	NaN	Kerin O'Keefe	@kerinokeefe	Nicos 20' Vull Biand (Etn
	1	Portugal	This is ripe and fruity, a wine that is smooth	Avidagos	87	15.0	Douro	NaN	NaN	Roger Voss	@vossroger	Quin do Avidago 20° Avidago Re (Dour
	129969	France	A dry style of Pinot Gris, this is crisp with	NaN	90	32.0	Alsace	Alsace	NaN	Roger Voss	@vossroger	Domair Marc Deis 20' Pin Gr (Alsac
	129970	France	Big, rich and off-dry, this is powered by inte	Lieu-dit Harth Cuvée Caroline	90	21.0	Alsace	Alsace	NaN	Roger Voss	@vossroger	Domair Schof 20' Lieu-c Har Cuve Car

129971 rows × 13 columns

y 5.

Run the cell below to create and display a DataFrame called animals:

```
animals = pd.DataFrame({'Cows': [12, 20], 'Goats': [22, 19]}, index=['Year 1', 'Year 2'])
```

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animals



In the cell below, write code to save this DataFrame to disk as a csv file with the name cows_and_goats.csv.

Your code goes here
animals.to_csv('cows_and_goats.csv')