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```
In [1]:
        import numpy as np
         import pandas as pd
        import matplotlib.pyplot as plt
        import seaborn as sb
data = pd.read csv("/users/baylife/desktop/csv files/california-history.csv")
         # list the columns within the data file
        print("\n\nThe columns with the data file are: \n\n", data.columns, "\n\n")
        print("\n\n The are currently", len(data.columns), "columns with the CSV file to choose from\n\n")
       The columns with the data file are:
         Index(['date', 'state', 'death', 'deathConfirmed', 'deathIncrease',
               'deathProbable', 'hospitalized', 'hospitalizedCumulative',
               'hospitalizedCurrently', 'hospitalizedIncrease', 'inIcuCumulative',
               'inIcuCurrently', 'negative', 'negativeIncrease',
               'negativeTestsAntibody', 'negativeTestsPeopleAntibody',
               'negativeTestsViral', 'onVentilatorCumulative', 'onVentilatorCurrently',
               'positive', 'positiveCasesViral', 'positiveIncrease', 'positiveScore',
               'positiveTestsAntibody', 'positiveTestsAntigen',
```

The are currently 41 columns with the CSV file to choose from

'totalTestsViral', 'totalTestsViralIncrease'],

'positiveTestsPeopleAntibody', 'positiveTestsPeopleAntigen', 'positiveTestsViral', 'recovered', 'totalTestEncountersViral',

'totalTestResultsIncrease', 'totalTestsAntibody', 'totalTestsAntigen',

'totalTestEncountersViralIncrease', 'totalTestResults',

'totalTestsPeopleAntibody', 'totalTestsPeopleAntigen',
'totalTestsPeopleViral', 'totalTestsPeopleViralIncrease',

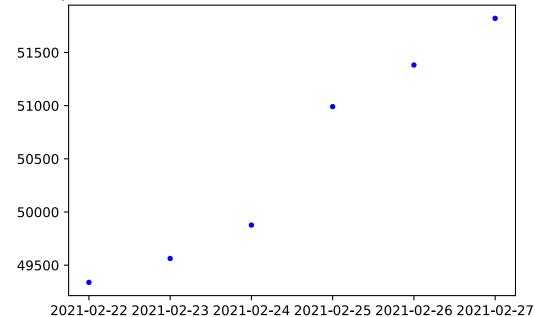
```
In [3]: #columns of interest
```

dtype='object')

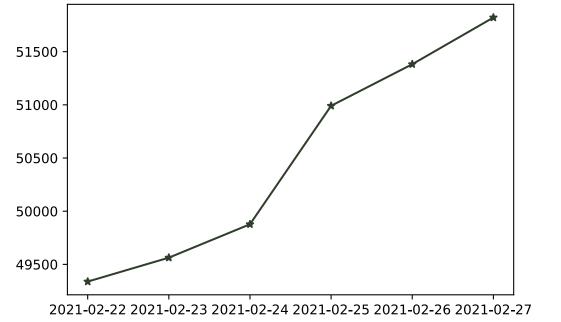
file:///Users/baylife/Desktop/Data Science/Covid-19 analysis.html

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Scatter plot: covid-19 death toll california from: 2021-02-22 - 2021-02-27



Bar graph: covid-19 death toll california from: 2021-02-22 - 2021-02-27



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file:///Users/baylife/Desktop/Data Science/Covid-19 analysis.html

date	2021-02-22
state	CA
death	49338.0
hospitalizedCurrently	7165.0
hospitalizedIncrease	0
inIcuCurrently	2010.0
negativeIncrease	0
positive	3446611
positiveCasesViral	3446611
positiveIncrease	4665
positiveScore	0
totalTestEncountersViralIncrease	0
totalTestResults	47320802
totalTestResultsIncrease	277454
totalTestsPeopleViralIncrease	0
totalTestsViral	47320802
totalTestsViralIncrease	277454
Name: 13, dtype: object	
date	2021-02-23
state	CA
death	49563.0
hospitalizedCurrently	6908.0
hospitalizedIncrease	0
inIcuCurrently	1898.0
negativeIncrease	0
positive	3450058
positiveCasesViral	3450058
positiveIncrease	3447
positiveScore	0
totalTestEncountersViralIncrease	0
totalTestResults	47513367
totalTestResultsIncrease	192565
	1,72,505
totalTestsPeopleViralIncrease totalTestsViral	47513367
totalTestsViralIncrease	192565
	192303
Name: 12, dtype: object	
date	2021-02-24
state	CA
death	49877.0
hospitalizedCurrently	6764.0
hospitalizedIncrease	0704.0
nospicalizealnelease	U

<pre>inIcuCurrently negativeIncrease positive positiveCasesViral positiveIncrease positiveScore totalTestEncountersViralIncrease totalTestResults totalTestResultsIncrease totalTestsPeopleViralIncrease totalTestsViral totalTestsViral totalTestsViralIncrease Name: 11, dtype: object</pre>	1842.0 0 3455361 3455361 5303 0 0 47652172 138805 0 47652172 138805
date state death hospitalizedCurrently hospitalizedIncrease inIcuCurrently negativeIncrease positive positiveCasesViral positiveIncrease positiveScore totalTestEncountersViralIncrease totalTestResults totalTestResultsIncrease totalTestsPeopleViralIncrease totalTestsViral totalTestsViral totalTestsViralIncrease Name: 10, dtype: object	2021-02-25 CA 50991.0 6520.0 0 1783.0 0 3460326 3460326 4965 0 47814160 161988 0 47814160 161988
date state death hospitalizedCurrently hospitalizedIncrease inIcuCurrently negativeIncrease positive positiveCasesViral positiveIncrease	2021-02-26 CA 51382.0 6152.0 0 1725.0 0 3465726 3465726 5400

positiveScore	0
totalTestEncountersViralIncrease	0
totalTestResults	47995576
totalTestResultsIncrease	181416
totalTestsPeopleViralIncrease	0
totalTestsViral	47995576
totalTestsViralIncrease	181416
Name: 9, dtype: object	
date	2021-02-27
state	CA
death	51821.0
hospitalizedCurrently	5897.0
hospitalizedIncrease	0
inIcuCurrently	1651.0
negativeIncrease	0
positive	3470877
positiveCasesViral	3470877
positiveIncrease	5151
positiveScore	0
totalTestEncountersViralIncrease	0
totalTestResults	48219490
totalTestResultsIncrease	223914
totalTestsPeopleViralIncrease	0
totalTestsViral	48219490
totalTestsViralIncrease	223914

Date: 2021-02-25 to 2021-02-24 Has a death difference of 1114.0 this is the largest gap for the 6 indices chosen

In [ ]:

Name: 8, dtype: object