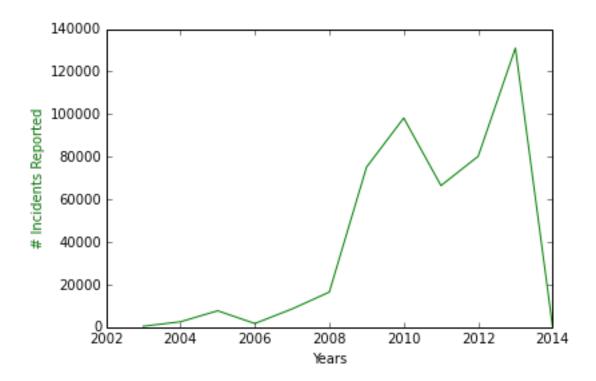
November 4, 2016

0.1 Question 2

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Group 19 Abhisek Mohanty Abhishek Nigam
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```
In [1]: import matplotlib.pyplot as plt
        import pandas as pd
        import numpy as np
        %matplotlib inline
In [2]: q2_data = pd.read_csv('datasets/events_train_holdout.tsv', delimiter='\t', error_bad_lines=Fals
        clean_TS = q2_data[q2_data["created_tstamp"].isnull() == False]
        clean_TS = clean_TS[clean_TS["created_tstamp"] != "NaN"]
        clean_TS = clean_TS[clean_TS["created_tstamp"] != "0"]
        clean_TS = clean_TS[clean_TS["created_tstamp"] != "1"]
        clean_TS = clean_TS[clean_TS["created_tstamp"] != "2"]
        clean_TS = clean_TS[clean_TS["created_tstamp"] != "3"]
        clean_TS = clean_TS[clean_TS["created_tstamp"] != "4"]
        clean_TS = clean_TS[clean_TS["created_tstamp"] != "5"]
Skipping line 45149: expected 13 fields, saw 15
In [4]: def split_year(row):
            val = str(row['created_tstamp'])
            val1 = str(row['start_tstamp'])
            val2 = str(row['confirmed_tstamp'])
            if "-" in val:
                return val.split('T')[0].split('-')[0]
            if "-" in val1:
                return val1.split('T')[0].split('-')[0]
            if "-" in val2:
                return val2.split('T')[0].split('-')[0]
        clean_TS['new_year'] = clean_TS.apply(lambda row: split_year(row), axis=1)
        year_grouped = clean_TS.groupby('new_year')
In [5]: fig, ax1 = plt.subplots()
        x = year_grouped.size().index
        ax1.plot(x, year_grouped.size(), 'g-')
        ax1.set_xlabel('Years')
        ax1.set_ylabel('# Incidents Reported', color='g')
Out[5]: <matplotlib.text.Text at 0x7f0cd41ef150>
```



In []: