In [2]:
```
#Yifu Ding
#this data was not used in finalsubmission
#takes couple hours to run
import pandas as pd
df = pd.read_csv("cleanDataWithPartiesInflation.csv")
```

In [3]:
```
df = df.drop(['cmte_id', 'amount'], axis='columns')
df
```

Out[3]:

	state	employer	year	party	adjusted
0	KY	INSURANCE SALES AND ADM	1979	DEM	3459.963252
1	NY	WILKIE, FARR & GALLAGHER	1979	DEM	1729.981626
2	NY	WENDER, MURASE & WHITE	1979	DEM	3459.963252
3	NY	SMILIN & SAFIER, INC	1979	DEM	1037.988976
4	NY	MUDGE ROSE ET AL	1979	DEM	1729.981626
...	...	...	...	...	...
30489448	DC	THE CALPRO GROUP	2019	DEM	200.000000
30489449	WA	SELF-EMPLOYED	2019	DEM	100.000000
30489450	CA	SELF-EMPLOYED	2019	DEM	2799.999997
30489451	CA	IT'S A WRAPPER! FILMS	2019	DEM	2799.999997
30489452	TX	SELF	2019	IND	25.000000

30489453 rows × 5 columns

In [ ]:
```
statelist = ['NY', 'AZ', 'CA', 'NV', 'AK', 'HI', 'OR', 'WA', 'ID', 'MT', 'UT',
'WY','CO','NM','TX', 'OK', 'KS',
            'NE','SD','ND','WI','IA','MN','IL','MO','AR','LA','MS','AL','TN',
'KY','IN','OH','MI','FL','GA',
            'SC', 'NC','VA','WV','MD', 'DE','PA','NJ','CT','RI','MA','VT','NH'
,'MI']
yearlist=[1980,1982,1984,1986,1988,1990,1992,1994,1996,1998,2000,2002,2004,200
6,2008,2010,2012,2014,2016,2018,2020]
demlist=[]
replist=[]
```

In [ ]:
```
for i in yearlist:
    demstatecount=0
    repstatecount=0
    print(i)
    for j in statelist:
        asd=df.loc[df['party']=='DEM'].loc[df['state']==j].loc[df['year']==i]
        sss=asd['adjusted']
        sum1=sum(sss)
        asdd=df.loc[df['party']=='DEM'].loc[df['state']==j].loc[df['year']==(i
-1)]
        ssss=asdd['adjusted']
        sum2=sum(ssss)
        sum3=sum1+sum2
        asd=df.loc[df['party']=='REP'].loc[df['state']==j].loc[df['year']==i]
        sss=asd['adjusted']
        sum4=sum(sss)
        asdd=df.loc[df['party']=='REP'].loc[df['state']==j].loc[df['year']==(i
-1)]
        ssss=asdd['adjusted']
        sum5=sum(ssss)
        sum6=sum4+sum5
        if (sum6>sum3):
            repstatecount=repstatecount+1
        elif (sum3>sum6):
            demstatecount=demstatecount+1
        print(j)
    demlist.append(demstatecount)
    replist.append(repstatecount)
```

In [ ]:

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