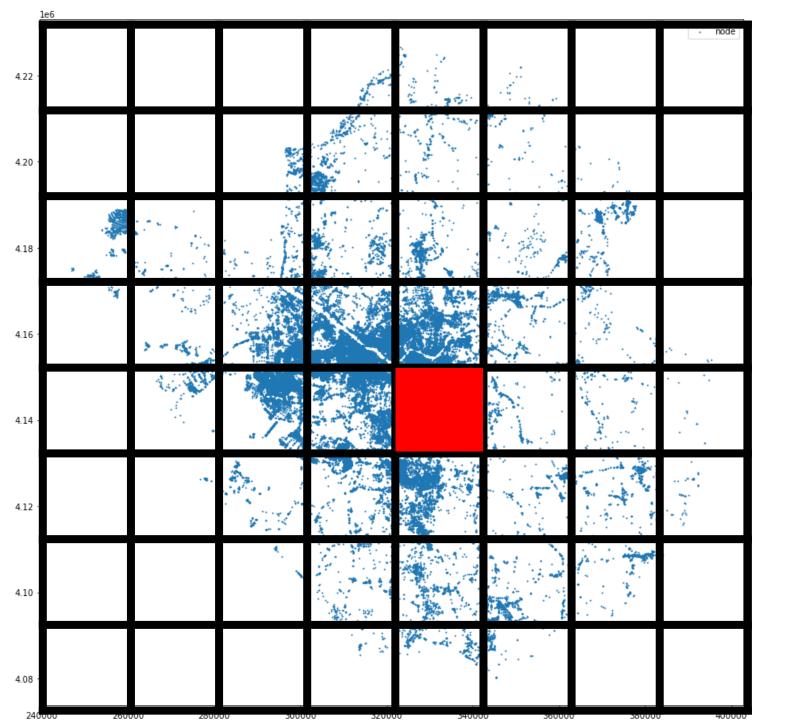
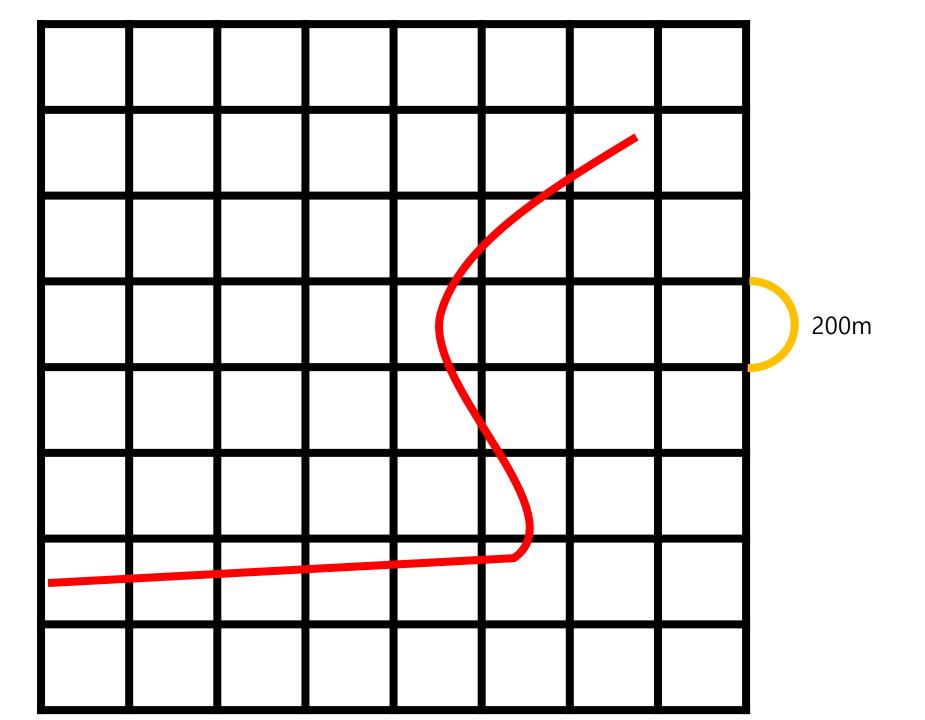
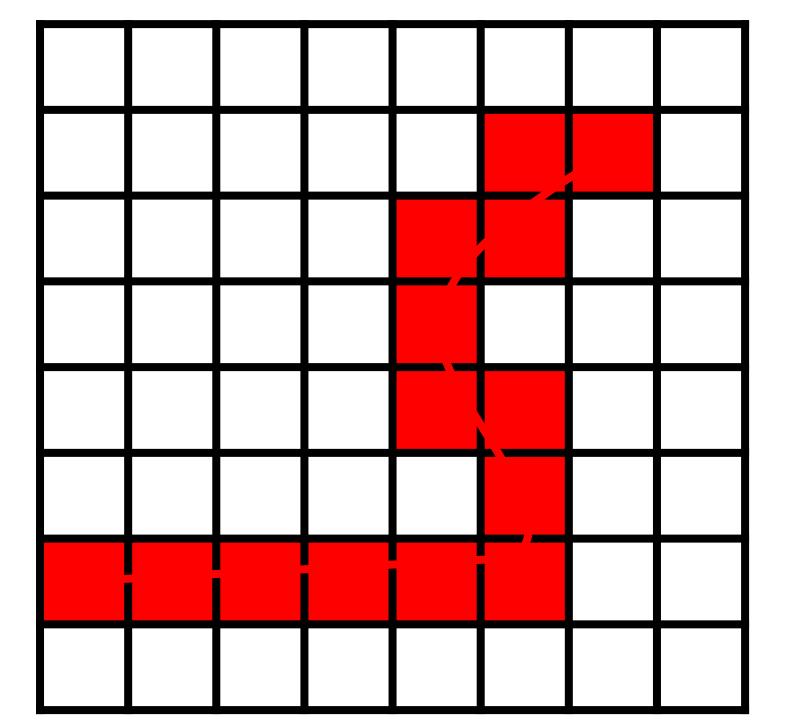
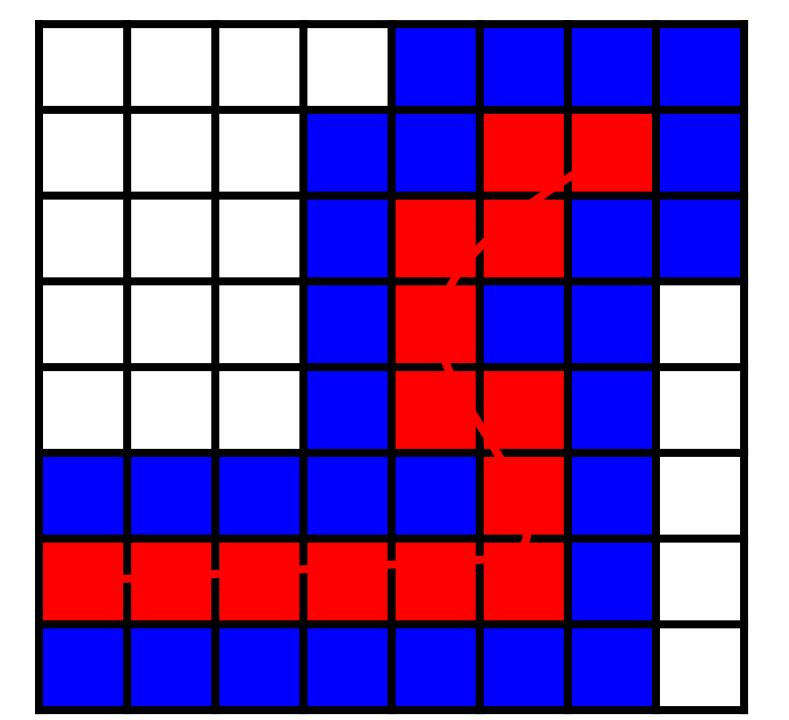
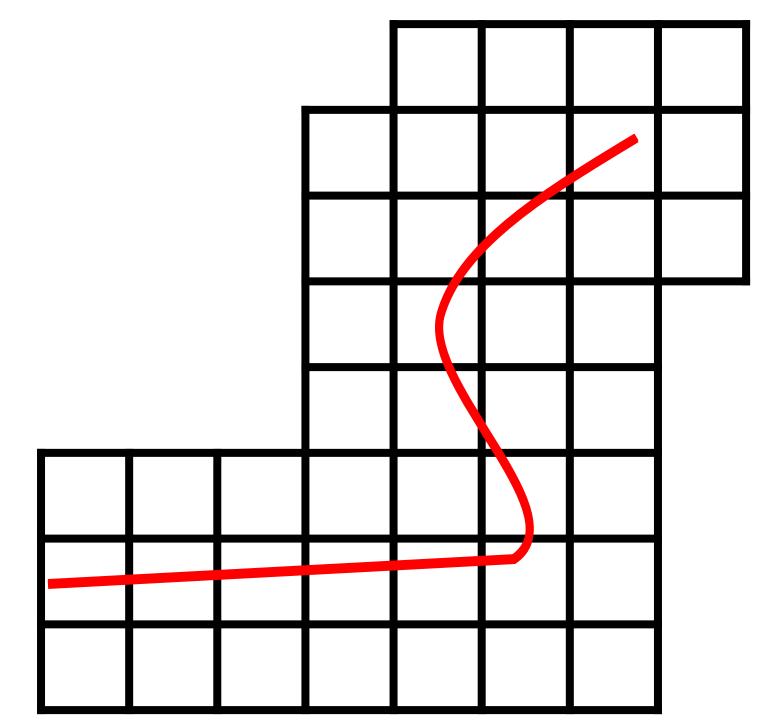
Grid setting

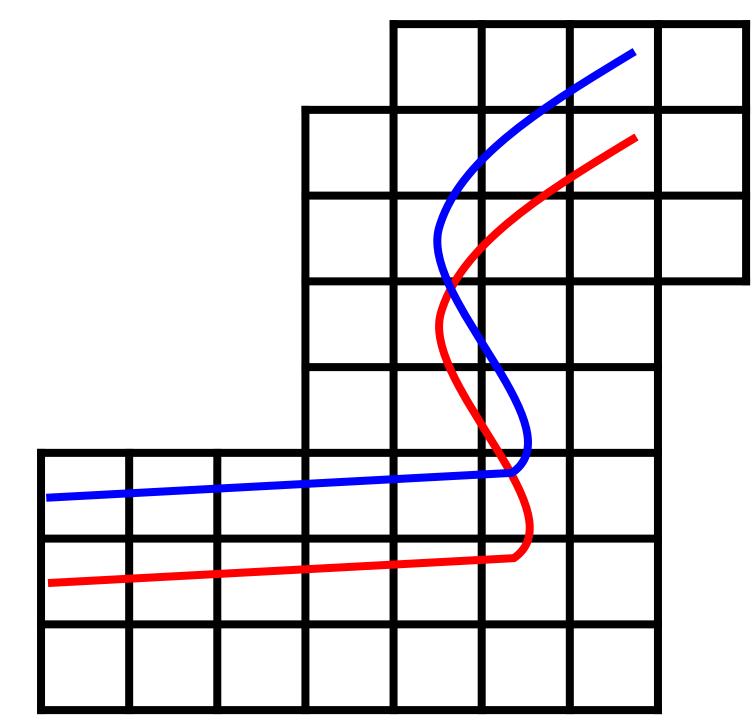


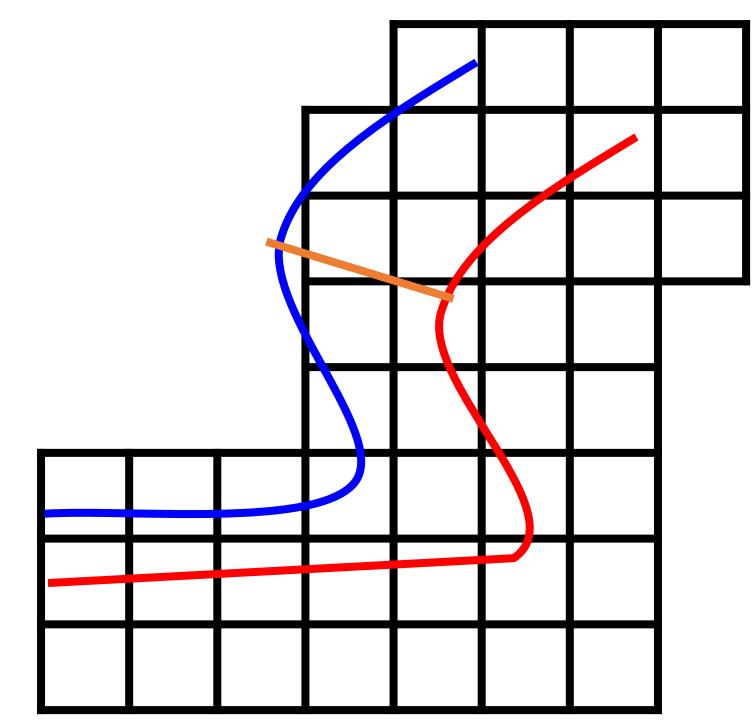


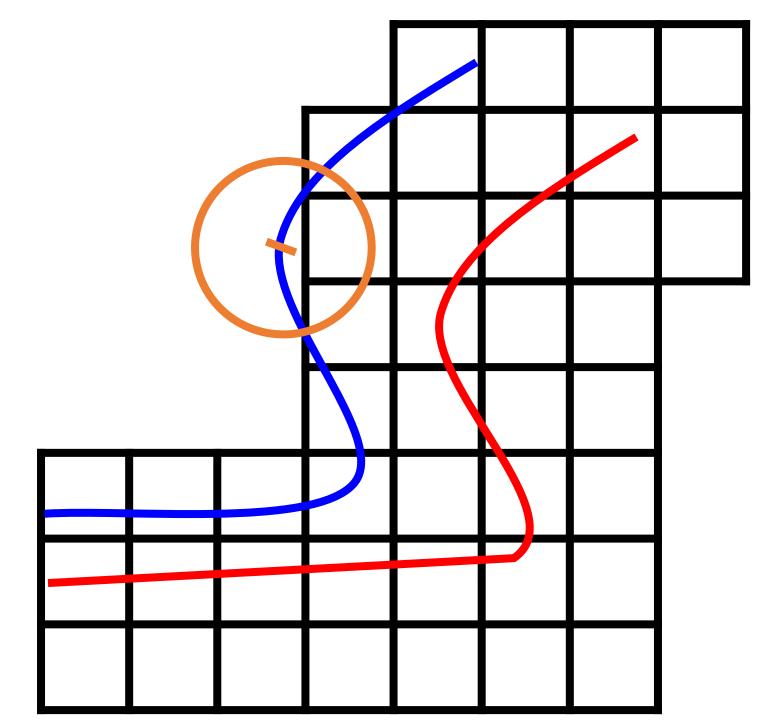


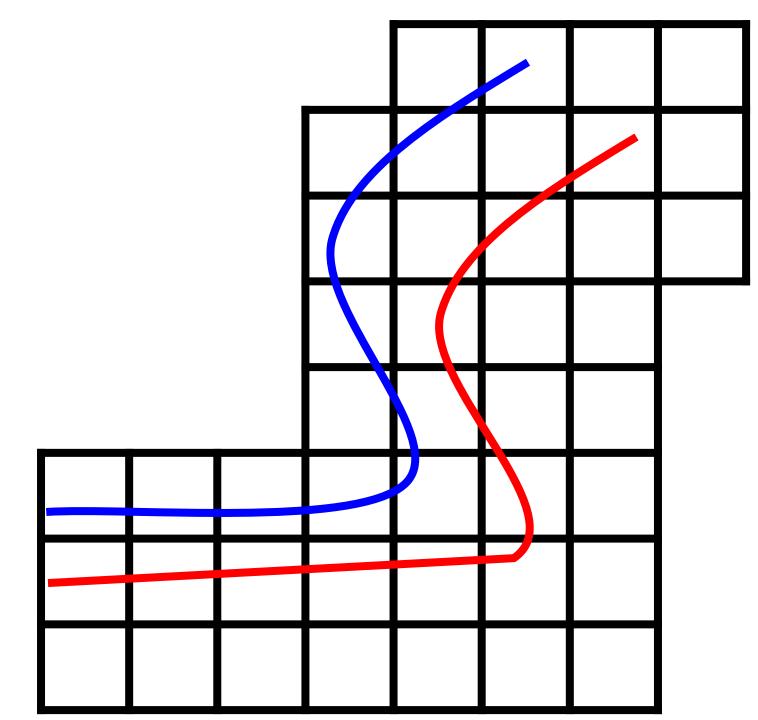












Code

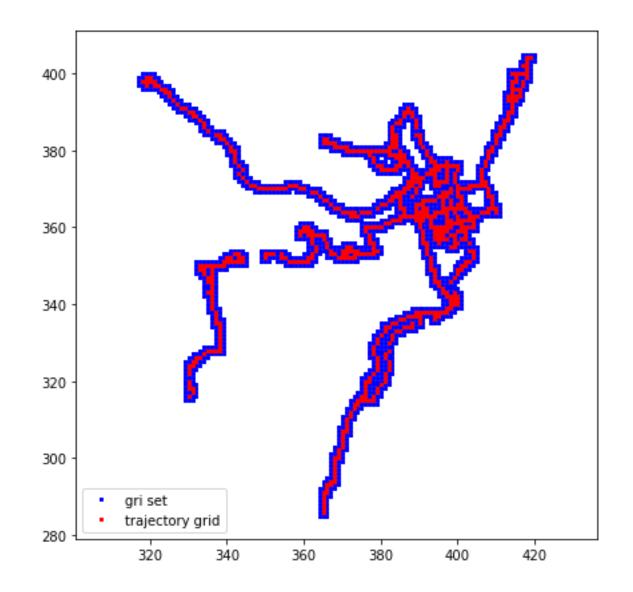
```
In [55]: def point_grid_1d(point):
num = int((point[0]//200-20400)*743 + (point[0]//200-1234))
return num
```

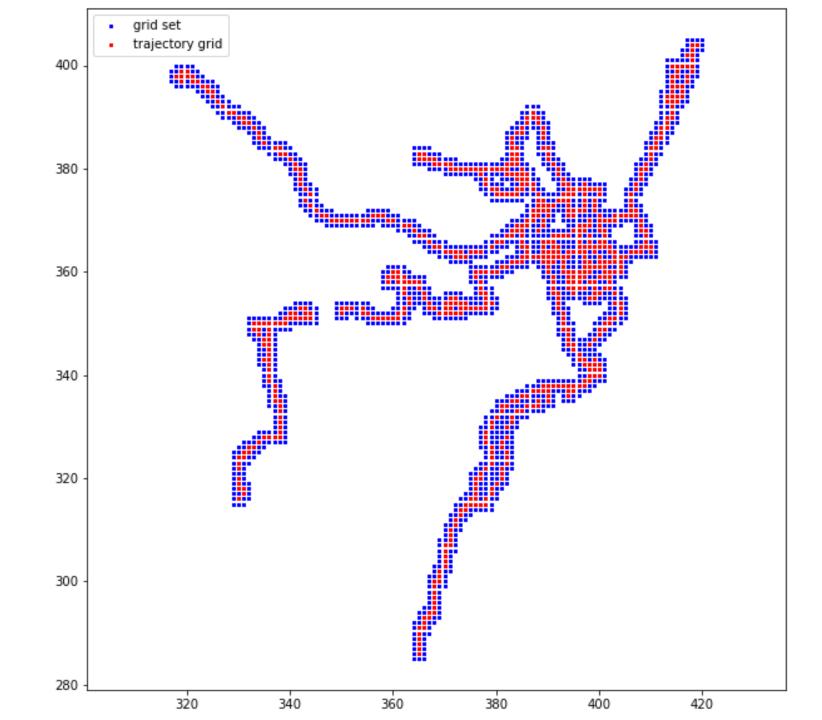
```
In [56]: def trajectory_grid_1d(trajectory):
| = []
for j in trajectory:
    l.append(int(j[0]//200-1234 + (j[1]//200-20400)*734))
return |
```

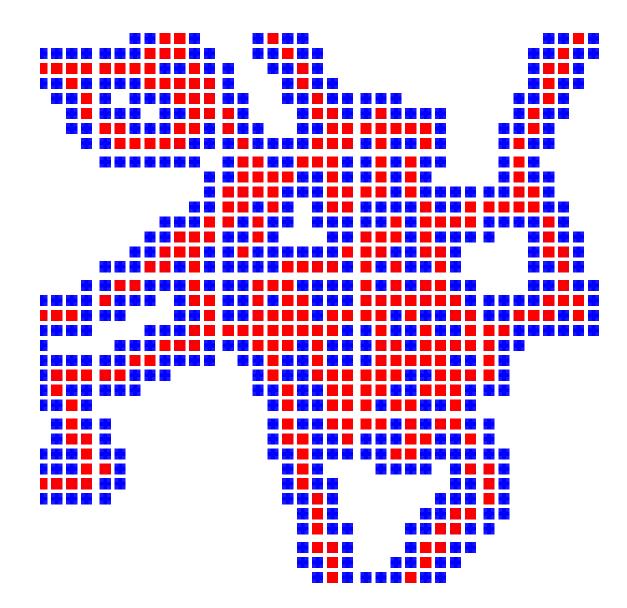
```
In [57]: def grid_set_1d(trajectory):
tot = []
grid_raw = trajectory_grid_1d(trajectory)
for i in grid_raw:
    grid_list = [i+733, i+734, i+735, \not i+1, \not i+1,
```

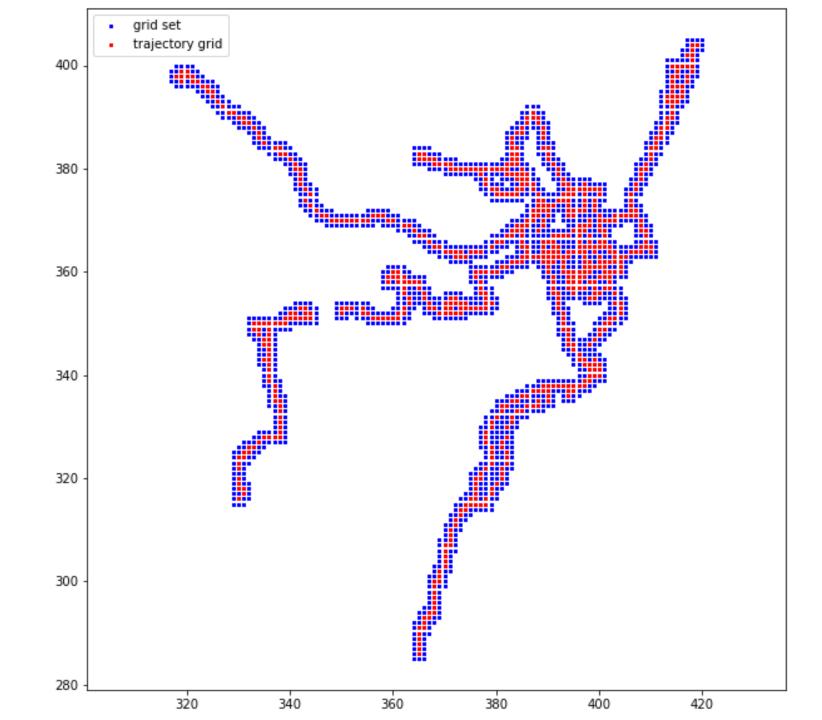
In [60]:	grid = [[],[]]
	grid_1 = [[],[]]
	for i in k:
	grid[0].append(i%734)
	grid[1].append(i//734)
	for i in k_1:
	grid_1[0].append(i%734)
	grid_1[1].append(i//734)

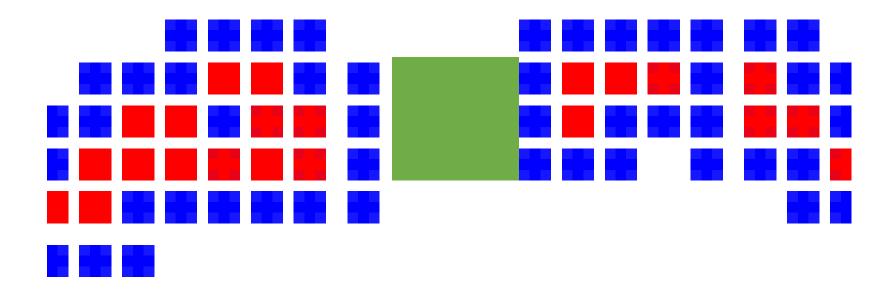
```
In [61]: plt.figure(figsize=(10,10))
plt.axis('equal')
plt.plot(*grid,'bs',markersize = 2,label = 'grid set')
plt.plot(*grid_1,'rs',markersize = 2,label = 'trajectory grid')
#plt.xlim(0,743)
#plt.ylim(0,734)
plt.legend()
plt.show()
```

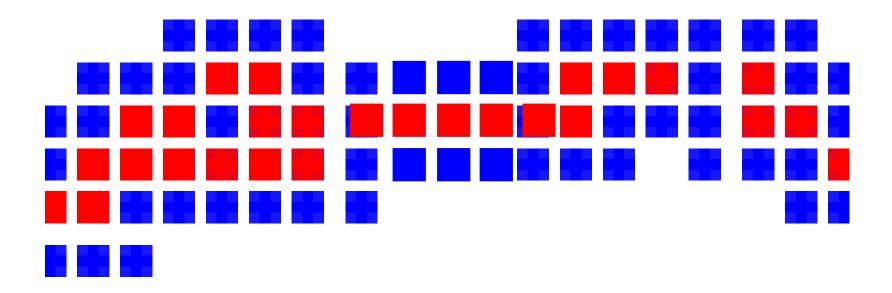












Plot

