hc

500 0.05

hc\_play vs rand\_play

0.6125

hc\_play vs value\_play

0.4925

Time used in seconds:

1204.0795679092407

200 0.05

hc\_play vs rand\_play

0.597

hc\_play vs value\_play

0.4815

Time used in seconds:

489.59081387519836

200 0.1

hc\_play vs rand\_play

0.623

hc\_play vs value\_play

0.5145

Time used in seconds:

455.83832120895386

500 0.1

hc\_play vs rand\_play

0.635

hc\_play vs value\_play

0.506

Time used in seconds:

1108.650134086609

1000 0.1

hc\_play vs rand\_play

0.63

hc\_play vs value\_play

0.495

Time used in seconds:

2061.157504081726

500 0.15

hc\_play vs rand\_play

0.6355

hc\_play vs value\_play

0.504

Time used in seconds:

1105.3883731365204

500 0.2

hc\_play vs rand\_play

0.623

hc\_play vs value\_play

0.4875

Time used in seconds:

1081.0612909793854

bellman

200 0.05

bellman\_play vs rand\_play

0.6365

bellman\_play vs value\_play

0.5125

Time used in seconds:

242.6031470298767

100 0.05

bellman\_play vs rand\_play

0.623

bellman\_play vs value\_play

0.525

Time used in seconds:

116.79711103439331

50 0.05

bellman\_play vs rand\_play

0.643

bellman\_play vs value\_play

0.5295

Time used in seconds:

60.82142901420593

40 0.05

bellman\_play vs rand\_play

0.652

bellman\_play vs value\_play

0.51

Time used in seconds:

47.816038846969604

30 0.05

bellman\_play vs rand\_play

0.642

bellman\_play vs value\_play

0.5125

Time used in seconds:

34.320056676864624

50 0.1

training 10th time

training 20th time

training 30th time

training 40th time

training 50th time

bellman\_play vs rand\_play

0.639

bellman\_play vs value\_play

0.517

Time used in seconds:

54.2075629234314

40 0.1

bellman\_play vs rand\_play

0.641

bellman\_play vs value\_play

0.51

Time used in seconds:

42.88567399978638

matchbox

factor:1

10000

matchbox\_play vs rand\_play

0.5625

matchbox\_play vs value\_play

0.4305

Time used in seconds:

13.200247049331665

50000

matchbox\_play vs rand\_play

0.5665

matchbox\_play vs value\_play

0.474

Time used in seconds:

51.074764013290405

100000

matchbox\_play vs rand\_play

0.577

matchbox\_play vs value\_play

0.462

Time used in seconds:

74.66934108734131

500000

matchbox\_play vs rand\_play

0.5615

matchbox\_play vs value\_play

0.4455

Time used in seconds:

374.56657099723816

factor: (10/(t.index(pos)+1))

10000

matchbox\_play vs rand\_play

0.547

matchbox\_play vs value\_play

0.4675

Time used in seconds:

9.95937204360962

50000

matchbox\_play vs rand\_play

0.526

matchbox\_play vs value\_play

0.413

Time used in seconds:

37.47548985481262

1000

matchbox\_play vs rand\_play

0.561

matchbox\_play vs value\_play

0.451

Time used in seconds:

4.113852024078369

factor: ((20-t.index(pos))/10)

10000

matchbox\_play vs rand\_play

0.5795

matchbox\_play vs value\_play

0.448

Time used in seconds:

11.078702211380005

50000

matchbox\_play vs rand\_play

0.581

matchbox\_play vs value\_play

0.469

Time used in seconds:

49.415014028549194

100000

matchbox\_play vs rand\_play

0.585

matchbox\_play vs value\_play

0.4635

Time used in seconds:

77.06899404525757

500000

matchbox\_play vs rand\_play

0.584

matchbox\_play vs value\_play

0.451

Time used in seconds:

368.78531098365784