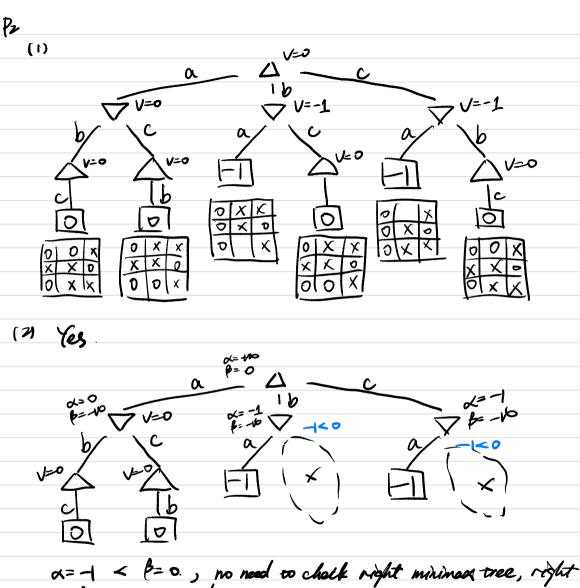
```
P1
```

```
>>>> Running Value Iteration...
Value Function (Value Iteration):
[[13.29362142 17.33892814 22.5940607 17.94118917]
[13.46249635 16.27084359 19.36556509 22.62055706]
[11.03467708 13.30874782 16.26274506 16.93044814]
[7.54355538 10.24772366 9.42801595 12.21844409]]
Policy is:
[['RIGHT' 'RIGHT' 'DOWN']
['RIGHT' 'RIGHT' 'UP' 'UP']
['RIGHT' 'UP' 'UP' 'UP']
['UP' 'UP' 'RIGHT' 'UP']]
>>>> Running Policy Iteration...
Value Function (Policy Iteration):
[[13.41000475 17.43446707 22.67071323 18.00327771]
[13.58348974 16.36677532 19.43628749 22.67162583]
[11.14166767 13.39608167 16.32726936 16.97302484]
[ 7.63001989 10.32418352 9.47108366 12.25297541]]
Policy is:
[['RIGHT' 'RIGHT' 'DOWN']
['RIGHT' 'RIGHT' 'UP' 'UP']
['RIGHT' 'UP' 'UP' 'UP']
['UP' 'UP' 'RIGHT' 'UP']]
```

```
>>>>>Running Value Iteration...
Value Function (Value Iteration):
 [[13.29362142 17.33892814 22.5940607 17.94118917]
 [13.46249635 16.27084359 19.36556509 22.62055706]
 [11.03467708 13.30874782 16.26274506 16.93044814]
 [ 7.54355538 10.24772366  9.42801595 12.21844409]]
Policy is:
 [['RIGHT' 'RIGHT' 'DOWN']
 ['RIGHT' 'RIGHT' 'UP' 'UP']
 ['RIGHT' 'UP' 'UP' 'UP']
 ['UP' 'UP' 'RIGHT' 'UP']]
>>>>
>>>>>Running Policy Iteration...
Value Function (Policy Iteration):
 [[13.41000475 17.43446707 22.67071323 18.00327771]
 [13.58348974 16.36677532 19.43628749 22.67162583]
 [11.14166767 13.39608167 16.32726936 16.97302484]
 [ 7.63001989 10.32418352 9.47108366 12.25297541]]
Policy is:
 [['RIGHT' 'RIGHT' 'RIGHT' 'DOWN']
 ['RIGHT' 'RIGHT' 'UP' 'UP']
 ['RIGHT' 'UP' 'UP' 'UP']
 ['UP' 'UP' 'RIGHT' 'UP']]
```



part can be pruved.