pattern A

k = 0

states

overlap

k = 7

states

overlap

k = 14
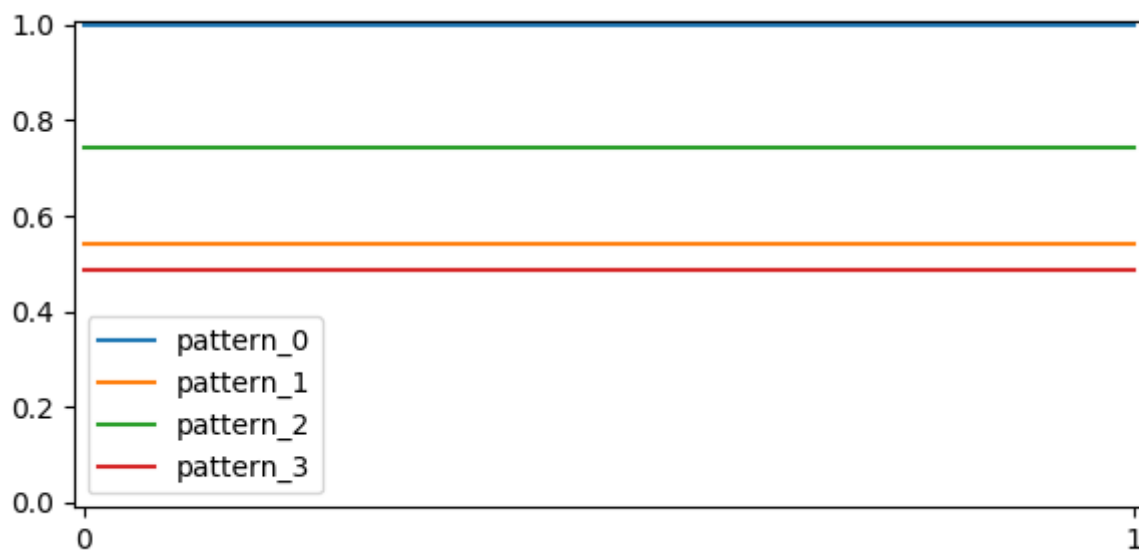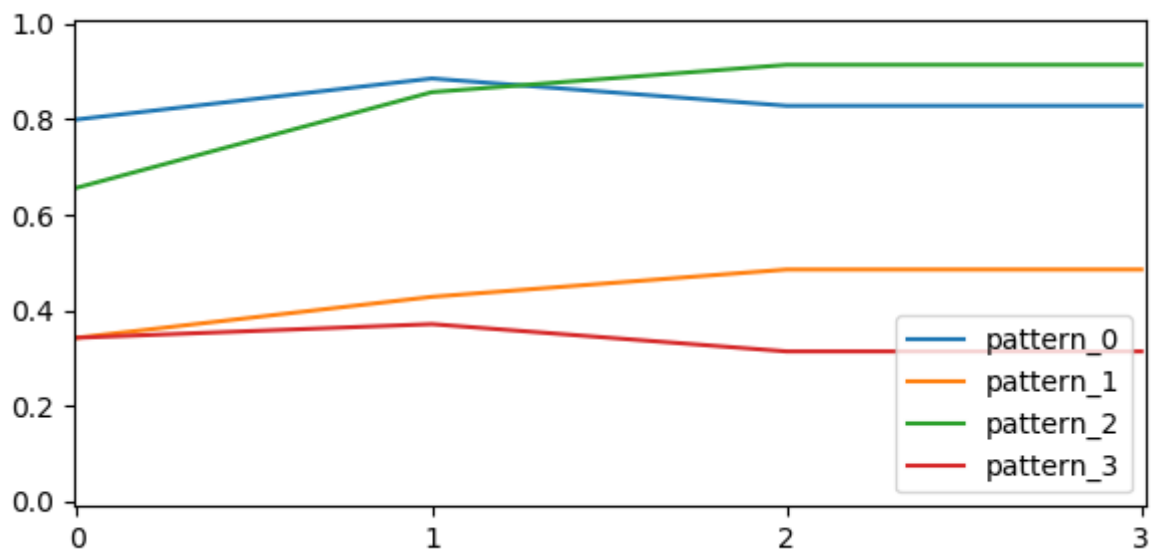
states

overlap

k = 21
states
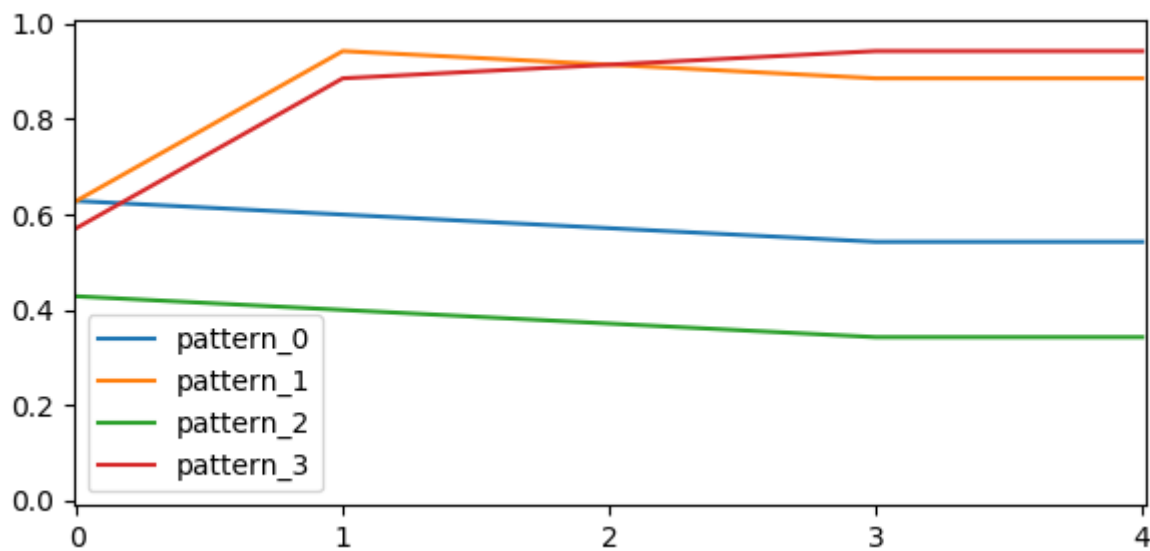
overlap

energy A
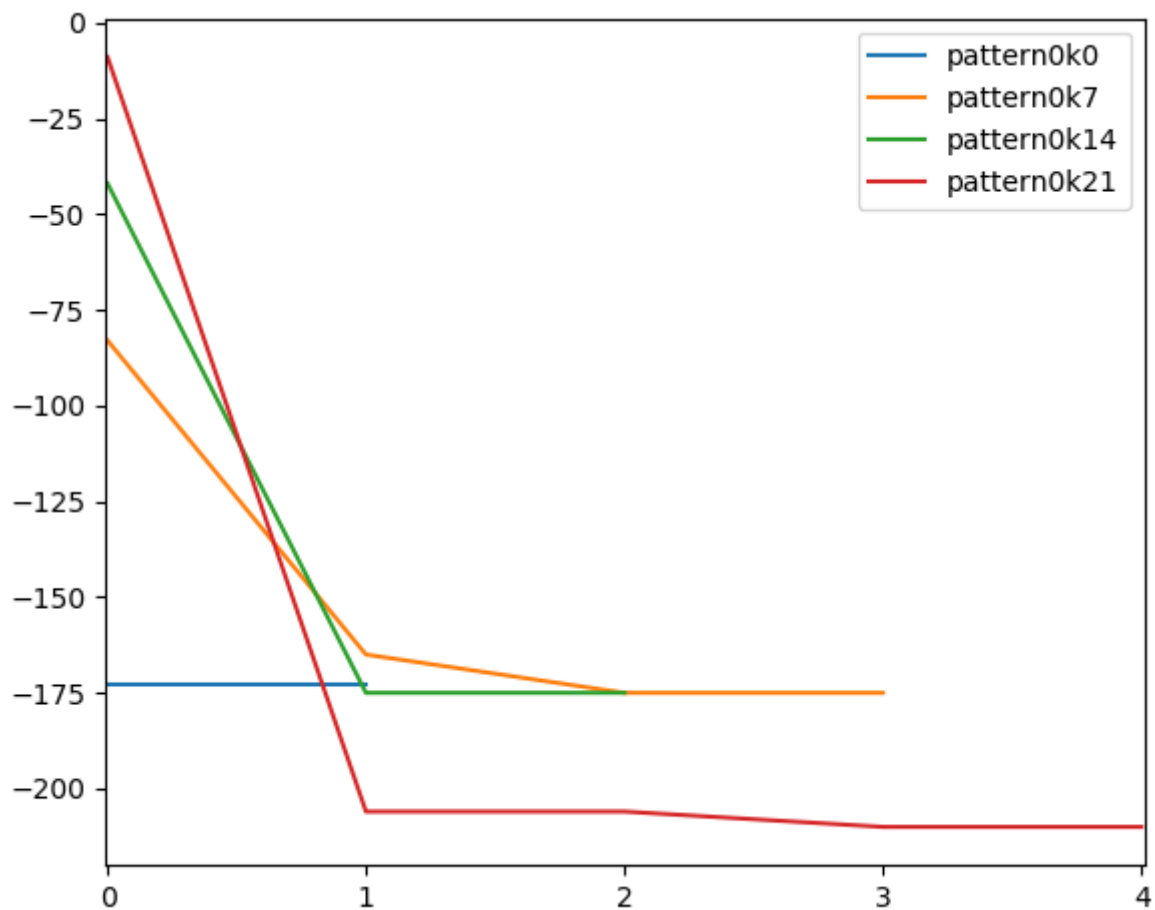
pattern B

k = 0
states

overlap

k = 7
states

overlap

k = 14

states

overlap

k = 21
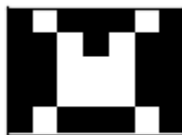
states

overlap

energy B

pattern X

k = 0

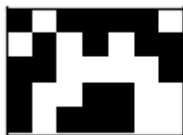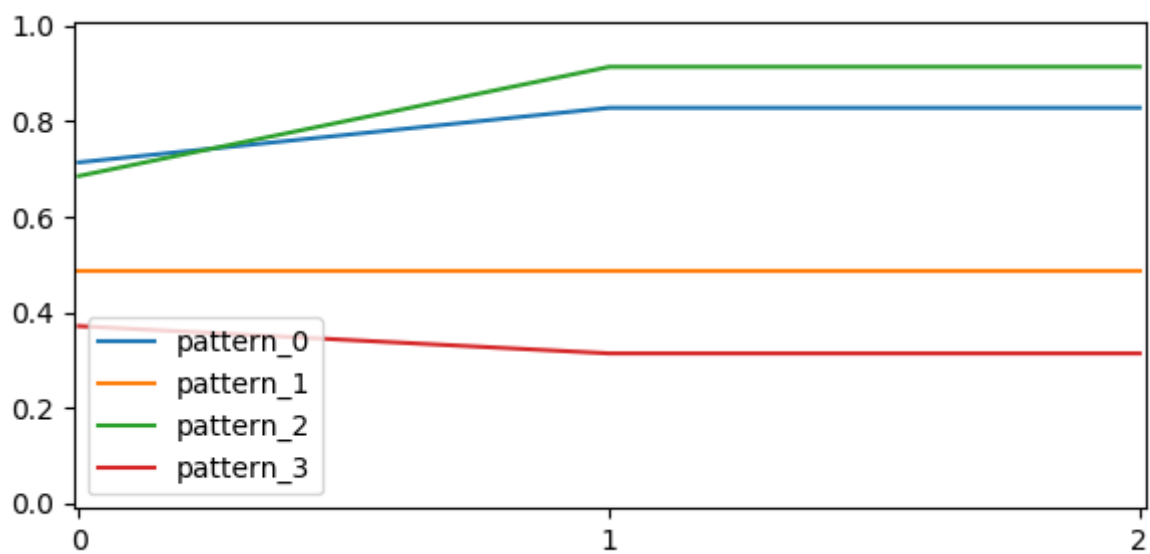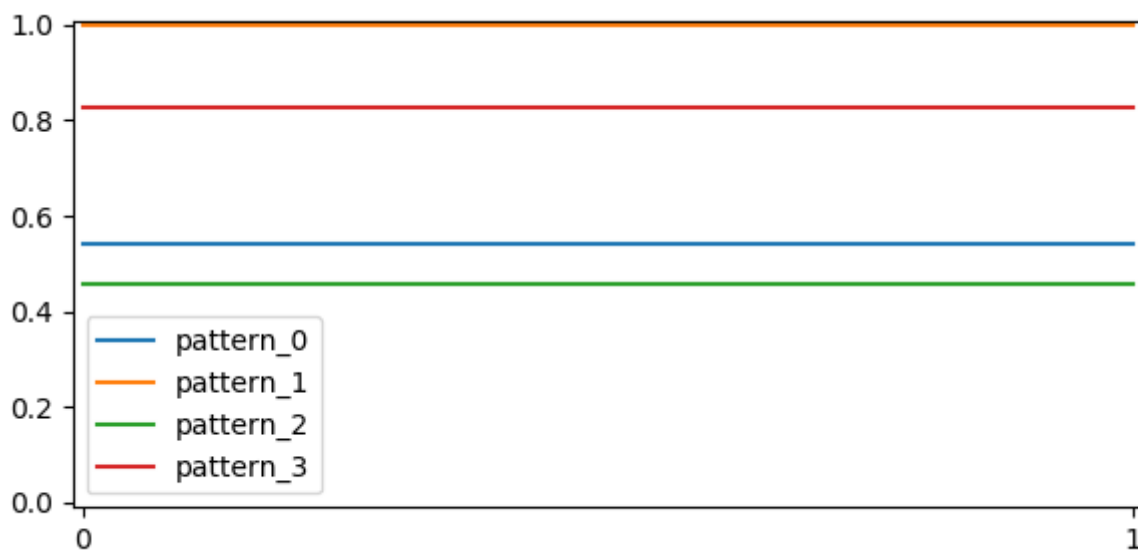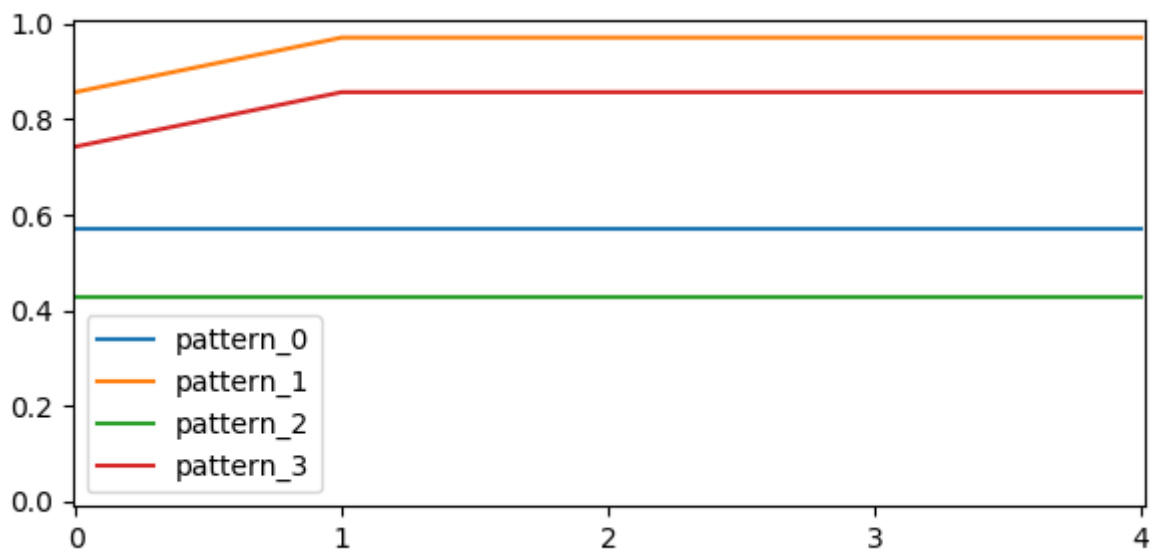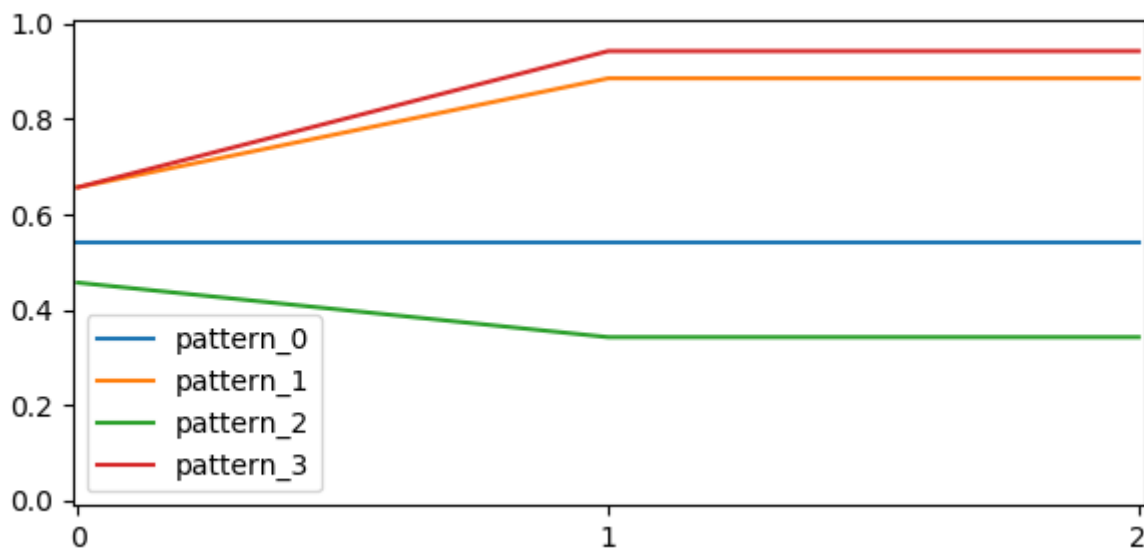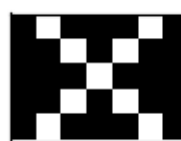**states**

overlap

k = 7
states

overlap

k = 14
states

overlap

k = 21
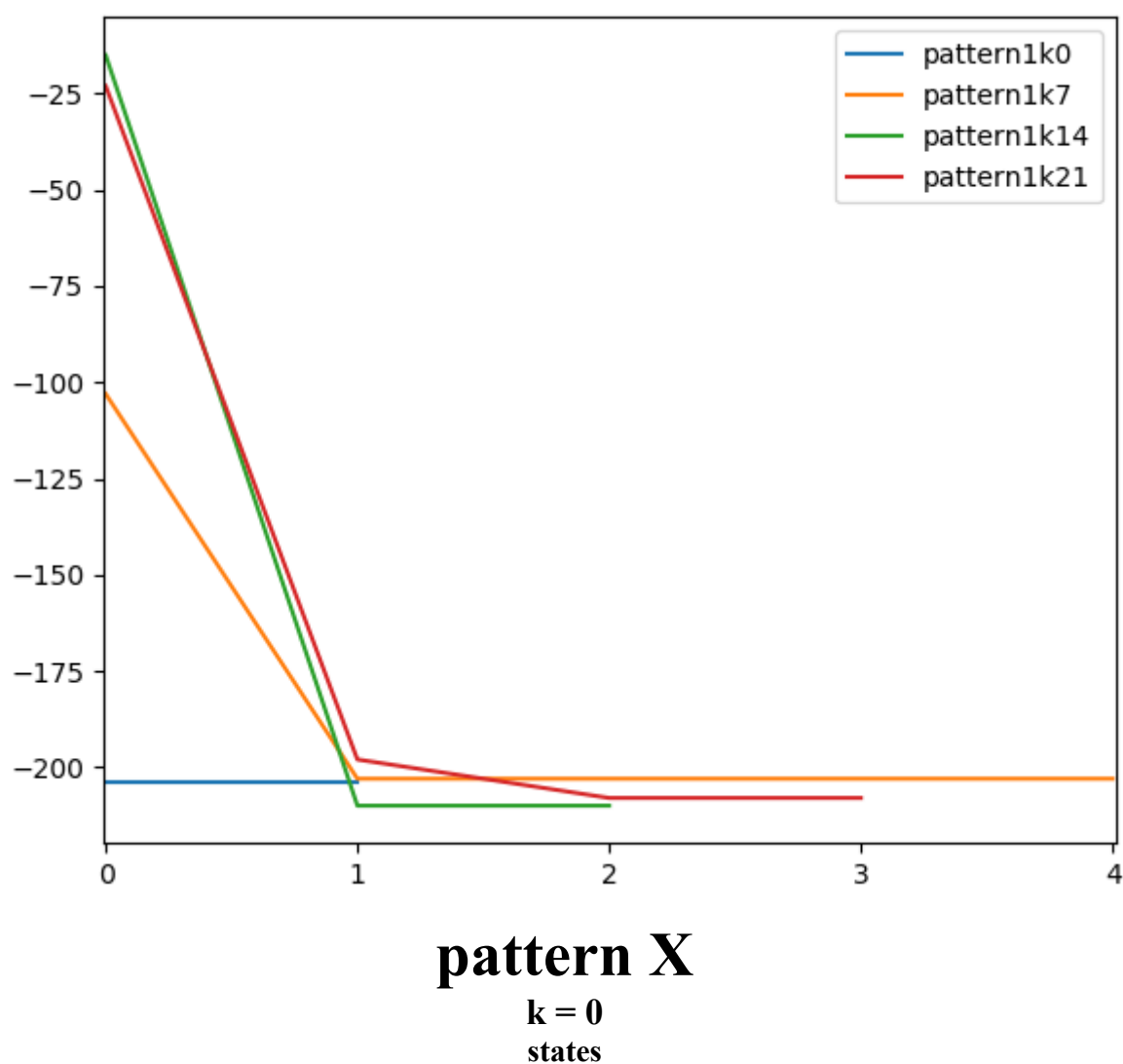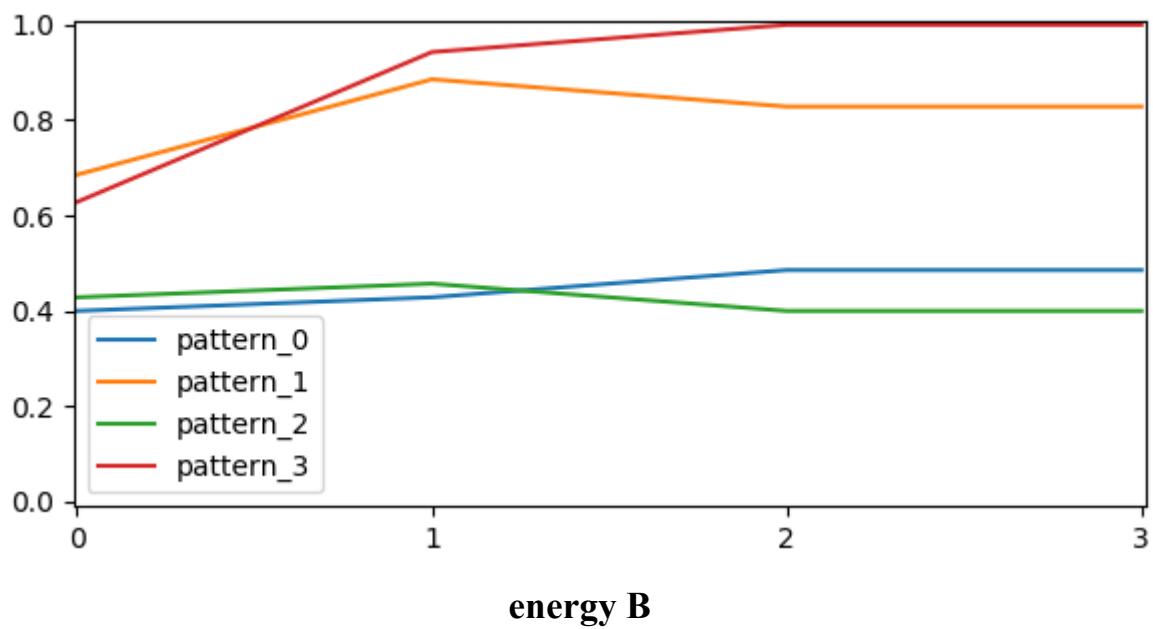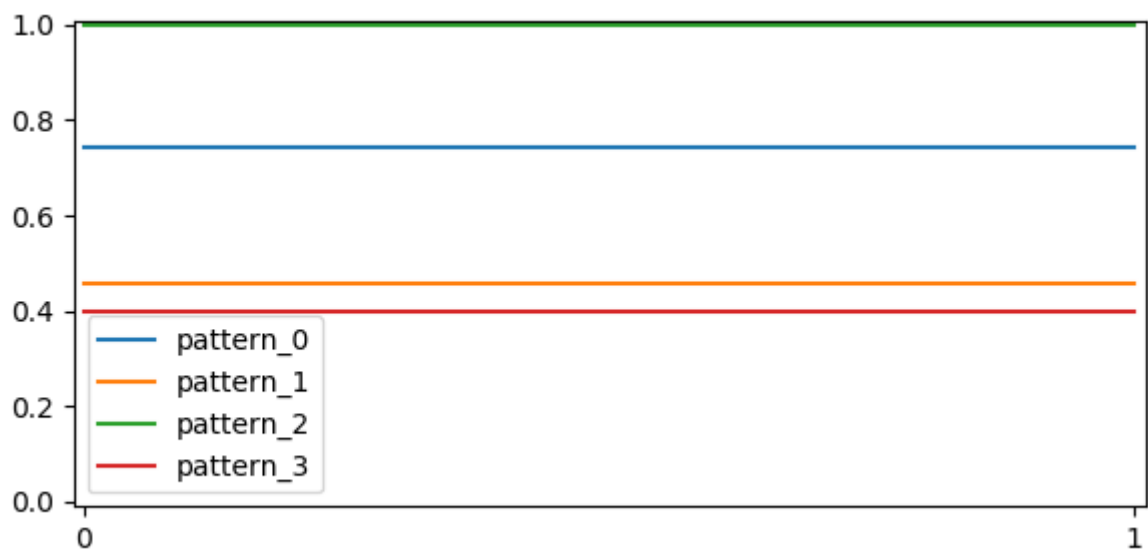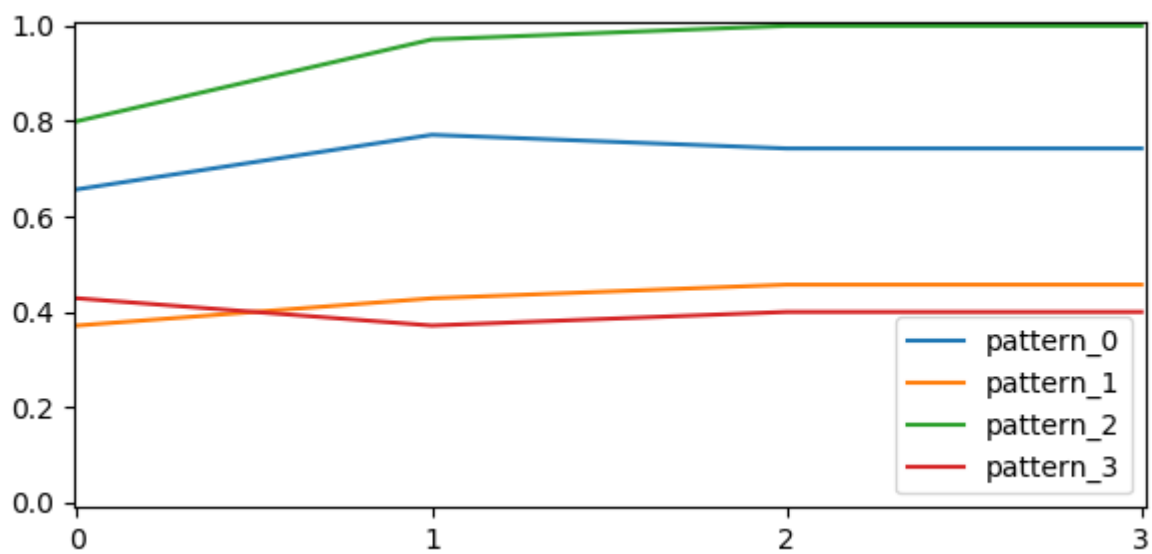
states

overlap

energy X
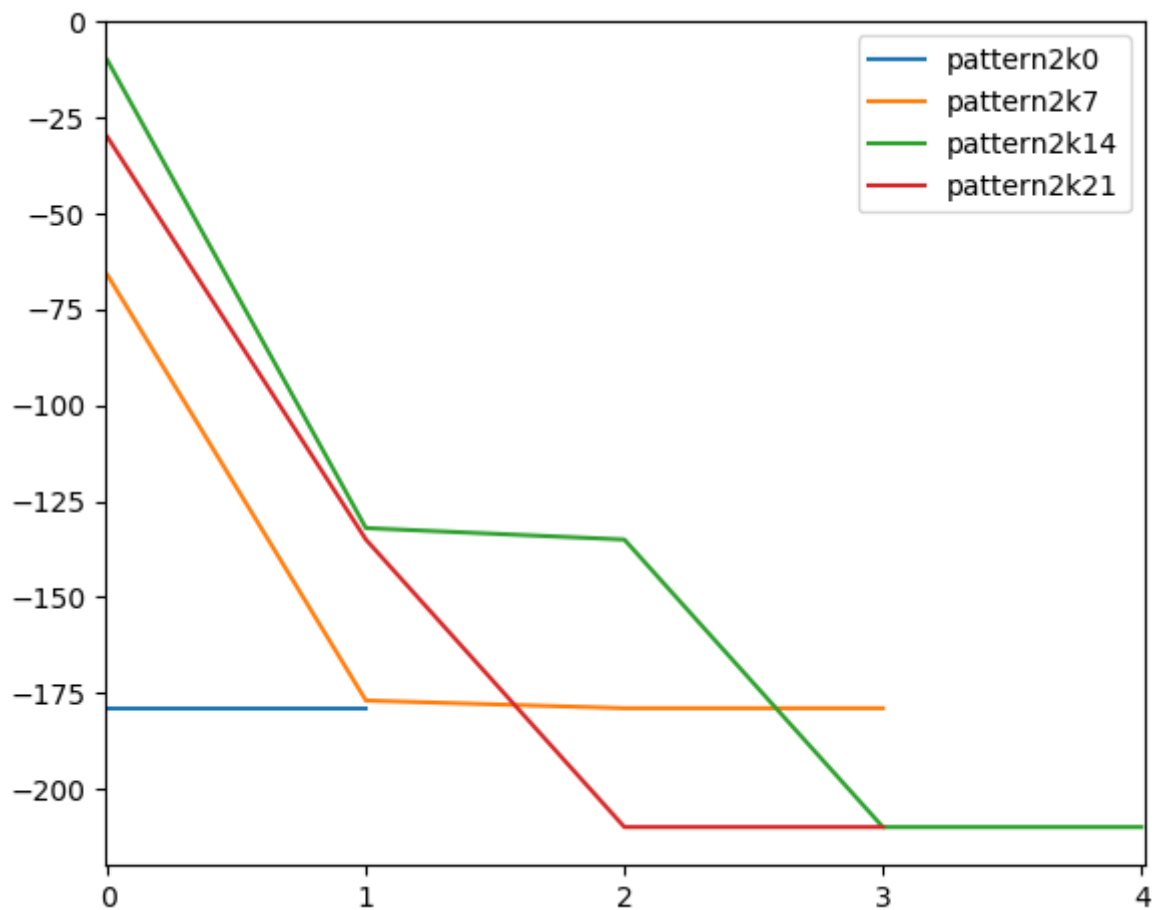
pattern O

k = 0
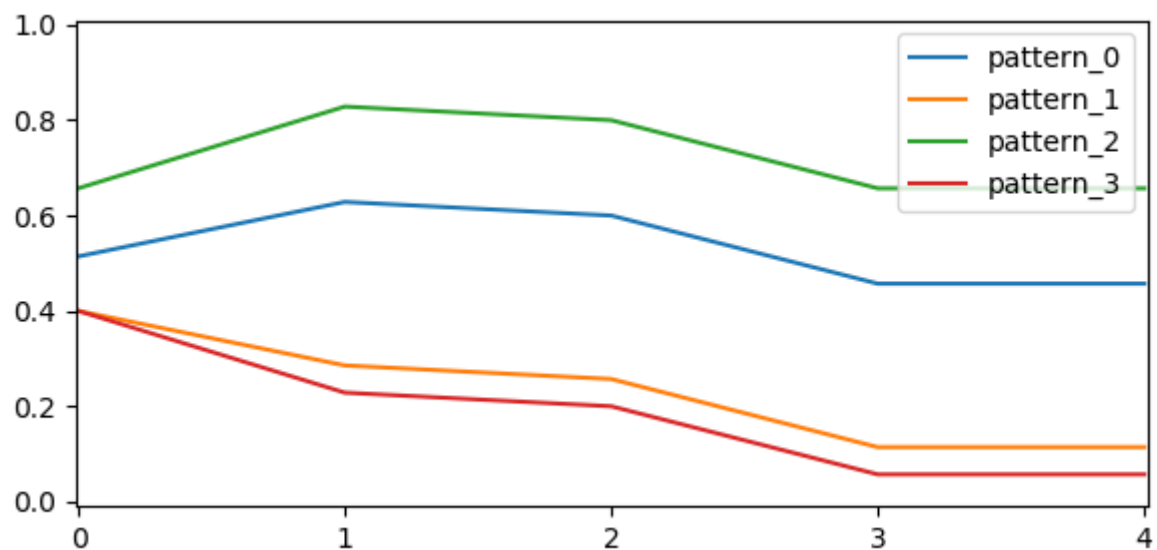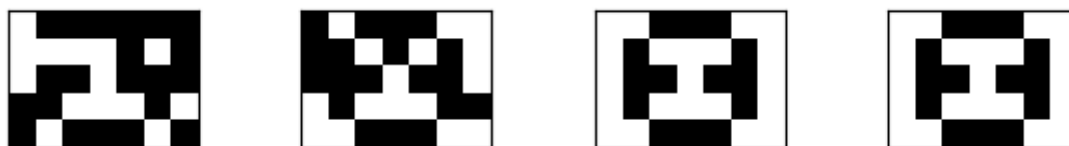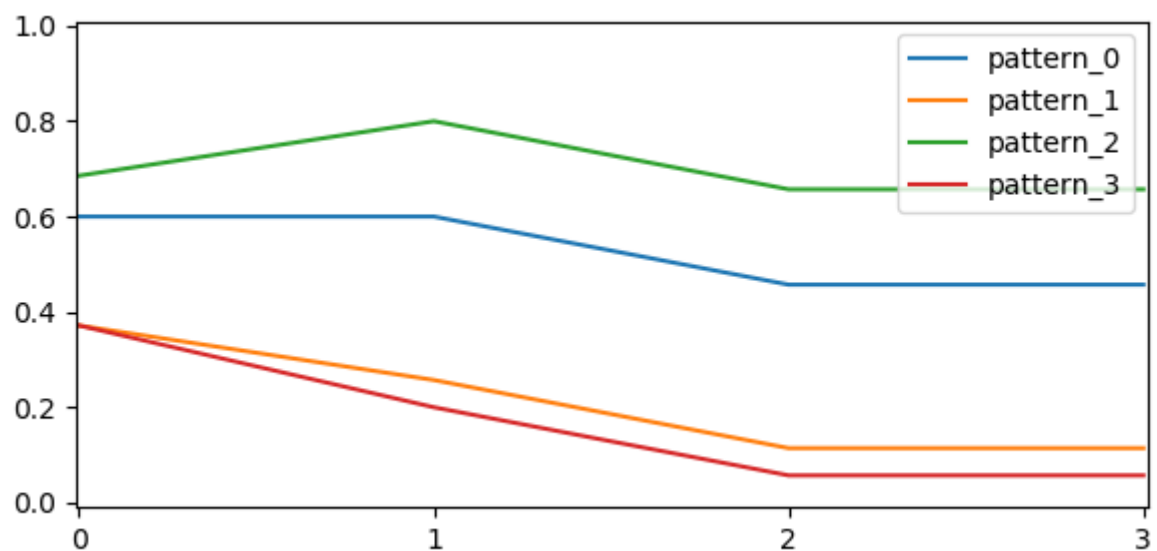states

overlap

k = 7
states

overlap

k = 14

states
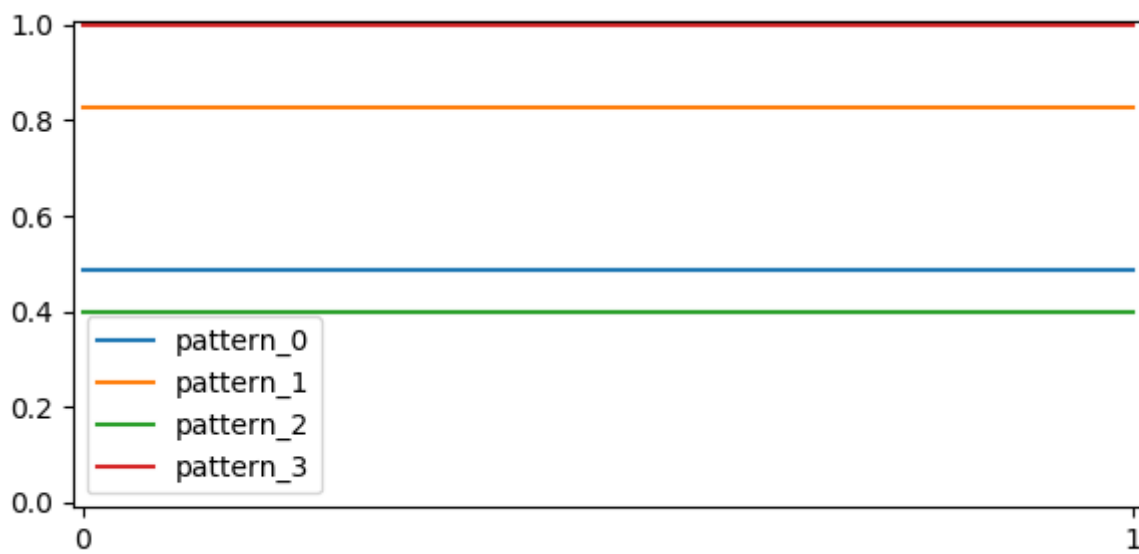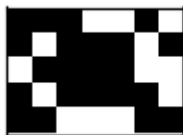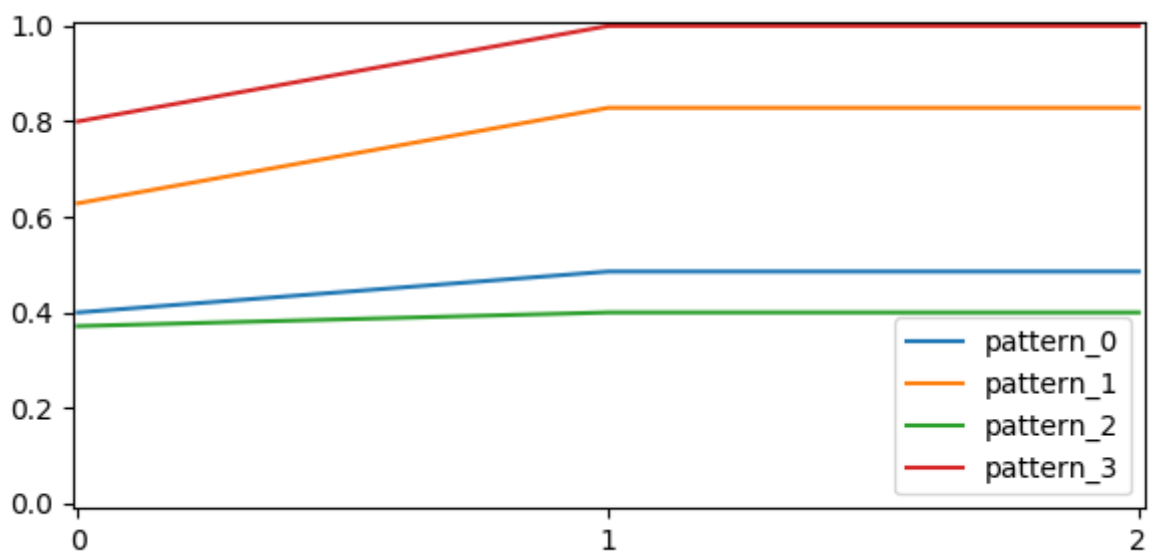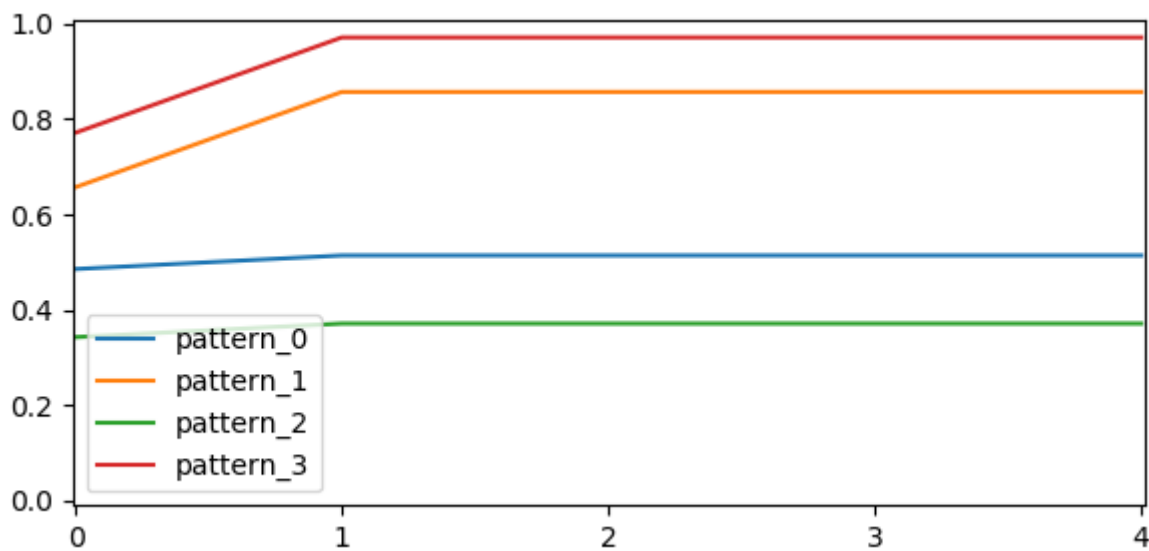

overlap

k = 21

states

overlap

energy O