

a)

Usable Ace:

S	H	S	H	S	S	S	H	S	S	20
S	H	H	H	H	H	H	H	S	S	19
H	H	H	S	S	H	S	H	H	S	18
S	H	H	H	S	H	H	H	H	H	17
H	H	H	H	H	H	H	H	H	H	16
H	H	H	H	H	H	H	H	H	H	15
H	H	H	H	H	H	H	H	H	H	14
H	H	H	H	H	H	H	H	H	H	13
H	H	H	H	H	H	H	H	H	H	12
1	2	3	4	5	6	7	8	9	10	

No Usable Ace:

S	S	S	S	S	S	S	S	S	S	20
S	S	S	S	S	S	S	S	S	S	19
S	S	S	S	S	S	S	S	S	S	18
S	S	S	S	S	S	S	S	S	S	17
S	S	S	S	S	S	S	H	H	H	16
H	S	S	S	S	H	H	H	H	H	15
H	S	S	H	S	H	H	H	H	H	14
H	H	H	S	S	H	H	H	H	H	13
H	H	H	H	H	H	H	H	H	H	12
1	2	3	4	5	6	7	8	9	10	

Performance level: -0.03991

b)

Usable Ace:

S	S	S	S	S	S	S	S	S	S	20
S	S	S	S	S	S	S	S	S	S	19
H	S	S	S	S	S	S	S	H	H	18
H	H	H	S	S	S	H	H	H	H	17
H	H	H	H	H	H	H	H	H	H	16
H	H	H	H	H	H	H	H	H	H	15
H	H	H	H	H	H	H	H	H	H	14
H	H	H	H	H	H	H	H	H	H	13
H	H	H	H	H	H	H	H	H	H	12
1	2	3	4	5	6	7	8	9	10	

No Usable Ace:

S	S	S	S	S	S	S	S	S	S	20
S	S	S	S	S	S	S	S	S	S	19
S	S	S	S	S	S	S	S	S	S	18
S	S	S	S	S	S	S	S	S	S	17
H	S	S	S	S	S	S	H	H	H	16
H	S	S	S	S	H	H	H	H	H	15
H	H	S	S	S	H	H	H	H	H	14
H	H	H	H	H	H	H	H	H	H	13
H	H	H	H	H	H	H	H	H	H	12
1	2	3	4	5	6	7	8	9	10	

Performance level: -0.03007

Number of Episodes: 2,000,000

Alpha: 0.00005

Emu: 1.0

Epi: 0.00001