

# 1 Monte Carlo and TD( $\lambda$ )

a)

0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

Table 1:  $V_0(i)$

0	0	8	9	10
5	6	7	0	0
0	0	0	0	0

Table 2:  $V_1(i)$

0	0	8	9	10
-46	-44.5	-43	0	0
0	0	0	0	0

Table 3:  $V_2(i)$

0	0	8	9	10
-44.33	-42.5	-40.667	8	0
0	0	0	0	0

Table 4:  $V_3(i)$

b)

6	15	1	1	0
49.33	0	0	0	0
0	0	0	0	0

Table 5: TD Error for episode 4

c)

$$\begin{aligned}
 TD(0) : v_{\pi}(s_{2,1}) &= -42.83 \\
 TD(0, 5) : v_{\pi}(s_{2,1}) &= -40.86 \\
 TD(1) : v_{\pi}(s_{2,1}) &= -38.58
 \end{aligned}$$