AGUILION, BEATRIZ, U

PART 1

	Step	State	Action	Reward	Next State
–	1	13, 11, F	Hit		19, 11, False
	2	19, 11, F	Stand		19, 21, False
	3.	19, 21, F	Stand	-1	BUST
2	1	6, 2, F	Hit		11, 2, False
	2	11, 2, F	Hit		17, 2, False
	3	17, 2, F	Stand		17, 27, False
	4.	17, 27, F	Stand	1	WIN
3	1	5, 11, F	Hit		12, 11, False
	2	12, 11, F	Hit		17, 11, False
	3.	17, 11, F	Stand		17, 21, False
	4	17, 21, F	Stand	-1	BUST
4	1	12, 4, F	Hit		17, 4, False
	2	17, 9, F	Hit		26, 19, False
	3.	26, 19, F	Stand	-1	BUST
5	1	6, 6, F	Hit		21, 6, False
	2	21, 6, F	Stand		21, 22, False
	3.	21, 22, F	Stand	1	WIN
6	1	7, 3, F	Hit		15, 3, False
	2	15, 3, F	Hit		25, 3, False
	3	25, 3, F	Stand		25, 20, False
	4	25, 20, F	Stand	-1	BUST
7	1	10, 6, F	Hit		21, 6, F
	2	21, 6, F	Stand		21, 26, F
	3	21, 26, F	Stand	1	WIN
8	1	18, 10, F	stand		18, 10, F
	2	18, 10, F	Stand		18, 22, F
	3	18, 22, F	Stand	1	WIN
9	1	19, 2, F	Stand		19, 2, F
	2	19, 2, F	Stand		19, 22, F
	3	19, 22, F	Stand	1	WIN

NO.:
DATE:

STEP	STATE	ACTION	REWARD	NEXT STATE
~~4~~ 4	~~18, 5, F~~	~~HIT~~		~~BUST~~
4	18, 5, F			
1	13, 5, F	HIT		18, 5, False
2	18, 5, F	Stand		18, 20, False
3	18, 20, F	Stand	-1	BUST

Part 2

a. State = (10, 6, False)

b. Number of visits: N(10, 6, False) = 1

c. V(10, 6, False) = 0

d. Increment visit count: N(10, 6, False) = 1

e. Update value function: V(10, 6, False) =

	(2)	(3)
	21, 6, False	21, 26, False
	1	1
	1	1
	0	0
	1	1

State	Return G	N(s)	Old V(s)	New V(s)
10, 6, F	1	1	0	
21, 6, F	1	1	0	
21, 26, F	1	1	0	