Carl	Arvin (C. Hipolita				DATE	
COMZ	21			STEP 1:			
				1. Ww+1 (A	7 = 4[(-1+1-1+1-1+1-1+1-1+1-1+1-1+1-1+1-1+1-1+	4(12)
42 9	tes I = CA	B. C. D. E. F.	G, H, J)	[((A)v +1-) + (10)v +1-)			
* Acti	ous A = (u	P, DOWN, LEFT	, PIGHT)		- 40	-17+(-17+(-17+6	[7]
* Poli	cy P = Ero	m overy state	, choose	(VX+1	(A)= -1		
eo	ch action	w/ probabili	14 0.25	2. Vx11 (8) = 4 (+1+v(8))+(-1+v(c))+			
v Rev	ward (R = -	1) per step	2	[-1 + V(E)) + (-1+ V(A))]			
* Dis	count Fac	for (y=1)			76	17+(-17+(-17+	~
* Un	discounted	MOP = (y=	1)	V+41	(3)5-1		
* Nov	r- terminal	States (A,B,	DIE			1 V(A)) + (-1 + V(E))+
	F. 47					1(G)) + (-1 + U(D)	
se Tex	runinal st	ate (CIG,	J)		1	-17 + (-17 + (-17 +	
* 40	ent Follow	s a uniform	M	TUKHI (D			
	random	policy				1 + V(B)) + (-1 + V	(2))4
RULES"	1)	T. 17		(-1+v(H))+(-1+v(D))]			
¥ ivo	m each st	nte, actions	uneve for shad	14G-120			
divec	ton if pass	ible, otherwise	: you story in	= 4[(-17+(-17+(-17+(-17)			
Jlve .	same Equo	erc.	11. 1	Ve1 (E) = -1			
a Remard is -1 mill the Levenium state				2. Vx+1 (F) = 4[(-1+ V(C))+(-1+ V(F))+			
is reached.				(-1+ V(1)) + (-1+ V(E))]			
GOAL:				= 4[(-1)+(-1)+(-1)+(-1)]			
* the goal is to reach state (, 6, I				V441 (F) = -1			
which	gives 0	reviewed and	ends the eff-	6. Vell (F	1) = 1/	(-17 (6)) + (-1	4 n(1))
side.				(-1 + V(H)) + (-1+ V(G))]			
& 10 reach the goal, we need to find the				VC.			
optimal policy TI.				VK41 (H) = -			
	Vy (5)	(2) 1+yV	Vx+2 (5)	STORIE.			
A	0	-1	-7	71	1 -1	0	
B	0	-1	-1.75	-1	-1	-1	
P	O	-1	-1.75	O	-1	0	
E	0	1	- Z	, Mo			
F	0	1 -1	-1.5				
Н	0	-1	-1.5				

	NO.: DATE:
	unic.
STEP Z:	
8- 1 K41 (A, LEFT) = -1 1 V(A)	M. 9411 (D. RIGHT) = -1 + V(E)
= -(+ (-1)	= ✓ → (-1)
944 (A. LEFT) = -2	941 (DIRIGHT) =-2
9. 9KAI (A, RIGHT) = -1 + U(B)	20. 9x+1 (D, UP) = -1 + V(A)
s -1 a (-1)	= -1 + * (-1)
7 KHI (A, RIGHT): 31 - Z	(9KH (D. LIP) = 2
10. 9HI (A, UP) = -1 -1 V(A)	21. 9x41 (D, DOWN) = -1 + V(G)
z >1 4 (-1)	: -1 x D.
241 (a, UP): -2	9×11 (D, DOWN) :-1
11 9x+1 (A, POWN) = -1 + V(D)	22. TIGH (D) = { DOWN}
: -1 4 (-1)	
941 (A. DOWN) : -2	23. 1,-11 (EILEFT) = -1 + 1000 V(C)
12. [TI KHI (A) = { LEFT, 1216HT, UP,	2 -1 + (-1)
Eumoa	9611 (E.LEFT) =-2
B. THAT (BILLETT) = -1 + V(A)	24. 9×11 (E. RIGHT) = ~1 + V(E)
= -(4 (-1)	:~[1 (-1)
PHI (B. LEFT) = -Z	9H1 (E, BIGHT) =-2
14. 9k+1 (B, RIGHT) = -1 + V(C)	25.9KH (E, UP) = -1 + U(B)
[() = - () = - () + 0	2 -1 4 (-1)
91841 (13, RIGHT) =-1	9K41 (E, UP) =-2
c. 9141 (B. UP) = -1 + V(B)	26- que (E. DOWN) \$= -1 + V(H)
2 + + + 10	2 -1 + (41)
9141 (B. UP) :-2	9 mg (E. DOWN) = -2)
6. 9x+1 (B. DOWN) = -1 + V(E)	27. THI (E) = { LEFT, PIGHT, UP.
= -1 + (-1)	EMMOS
9x+1 (B. DOWN) = -2	28. 9x11 (F, LEFT) = -1 4 V(E)
A. THE (B) = { PIGHT}	1 1 (-1)
	TUAN (F, LEFT) : -2
18. 9×11 (D), LEFT) = -1 +V(D)	29. 916+1 (F, F16H7)= -1 + V(F)
= ~1.4(-1)	: -1-4 (-1)
PERTY (P. LEFT) = -2	9K+1(F, 216HT) :2

VICTORY

NO.: DATE:

						DATE:	
3.		1000	5.1	(4=2)			
30. 9xx (FIUP) = -1 +	VCC		9 VE12 (A) =	4[(-1+1/6)	17)+(-1+ V(B))+	
	(0)		(-1+ V(D)) + (-1 + V(A))]			
1411 (F, UP)	7-1			Brater Set			
31. 9 K+1 (F, DO)	NN)= -1	+ 1/(1)		÷	4[(-2)+	(-2)+(-2)+(-2)]	
	> -1	+ 0 -		VK17 (A) = -2			
[941 (F, DO)	NN) = -1			* NK12 (B) = = (-1 + NK+1 (B)) + (-1 + NK+1 (C))			
82. THE (F)	= of UP.	DOWN 3			(-1 + VK31 (E)) + (-1 + Vx41 (4))]	
V				2	4[6-21+1	(2-) + (2-) + (-2)	
53. 9×11 (HA,	-1 + v(6)	N*+3 (B) :-	1.75				
	2	1 + (44) 0		& VK12 (D) =	7[(-1+ A*	11 (A1) + (-1 + V+11(E))	
9 KAI (HILE	FT) =	- 苞1		+	(-1 + V)+++ ((D)) + (-1 + V++ (D))	
34. qx+1 (H, 216	oHT) = -	1 + V(I)		2	寸[(-2) +	(-2) +(-1) +(-2)]	
	>-1	+0		Vicing (0): 1932 -1.75			
9 HH (H, 216	eHT) = -1			& NK42 (E) = 4[(-1+NK41 (B))+(-1+NK41 (F))			
BE- 9KHI (HOUP) = -1 +	VIET	115	+ (-1+ Ver1(H)) + (-1 + Ver1(D))]			
: -(+ (-1)				=======================================			
944, (H, UP):-2			Nx+2 (E) = - Z			
36.9 KM (H, DOW	- 1-= (NI	V(H)		& Vx17 (F) = 4[(-1 + Nx11(C)) + (-1 + Nx11(F)).			
2-1+ (-1)				(-1 + Vet (I)) + (-1 + Vet (E))]			
9411 (H.DOWN) : -2				= 4[(-1)+(-2)+(-1)+(-2)]			
37. TIX+1(H) = { LEFT, 1216473				VK12 (F) = -1.5			
				\$ V412 (H)	= 4[(-14V	was (E)) +(-1+Vmys (J)).	
38. K=1				(-1+ VV41 (17))+ (-1+ VV41 (G)))			
4>	The			1 4 [(-2)+(-1)+(-2)+(-1)]			
1 4	1	X		V42 (11)		-	
M/2 -	1/2		1		11341		
2 - 17 - 16				-2	-1.75	0	
2/2. Va (A) -	- (42 VX	21	-1.75	-2	-1.5	
LEDE			1	0	-1.5	0	
		YOU WAY	2				

NO.: DATE:

	DATE:			
45.*9 was (A, -7 = -1 1 (-2)	B. 2 9 Kd2 (H, ←) = -1 + (0) = -1			
: -3	747 (H, ->)=-1 1 (0) =-1			
9 mm (A, →) = -1 1 (-1.75)	9 miz (H, 1) = -1 + (-2) = -3			
₹7 . 3	7×+2(H, V) = -1 + (-1.5) = - 7.5			
1×12 (A, +) = - (1 62)	THE (H) = { LEFT, RIGHT}			
: -3				
747 (4,4) = -1 + (-1,75)	K: 2			
: -2.75	J -> //2 -2 -1.75			
TRIZ [A] = & RIGHT, DOWNY	1 1-15 -2 115			
6× 9472 (B. 4)=-1+(-2)=-3	The cold 0 4.5 0			
947 (3, ->): -1+(0): =-1				
747 (3,7) = -1 1(1.75) = -2.75	CI. of RIGHT, DOWN)			
7 kas (B, 1) 1 - 1 + (-2) = -3	52 & 1216HT }			
#TILLE (13) = { PRIGHT}	17. { DOWN}			
7 × 9x12 (D, 4) = -1 + (-1.75) = -2.75	54. { RIGHT, DOWN}			
9x+2 (D, ->):-1+(-2): 4825): 4825-3	St. fup, bowns			
942 (0,1):-(+(12s):=2128-3	J6. { LEFT, PIGHT 3			
Note (17, V) = -1 + (0) = -1				
Tun (D) = of DOWN?	<i>39.</i> -2			
5. 8 Triz (E, 4)= -1 + (-1.75)=-275	401.75			
grange (E, ->) = -1 + (-1.5) = -7.5	u1. D-1.75			
96-12 (E, 1) = -1 + (-1.75)= -2.75	422			
96+2 (E, V)= -1 + (-1.5) = -2.5	471.5			
THEZ (E) = & PIGHT, DOWN)	441. 5			
* Chor (R) >	the second second			
9. * 9 ktz (F, +) = - (-2)= -3				
9,6+2 (F, ->) = -1 + (-1.5) = -2.5				
9412 (F, A) = -1 -1 (0) = -1				
9 KS7 (F, V) = -1 + (0) = -1				
Mesz (F) = { UP, DEWNIZ				
7				