

@D. Bricker, U. of Iowa, 1998



i~state, k~action

<u>k:</u>	1	2	3	1	2	3	1	2	3	1	2	3	R
i:	1	1	1	2	2	2	3	3	3	4	4	4	н S
Min	38	32	25	14	22	27	3	23	28	4	24	29	
	0	0.2	0.7	-0.8 0.8	-0.3	0 7	-0.3	-0 3	0	0 3	0	0	0
	ŏ	0.2	-ŏ.2	0.0	-ŏ.2	-ŏ.:5	Ŏ.8	Ŏ.5	ŏ.7	-ŏ.š	-ŏ.3	ŏ	0 0 1
		Т	Т	Т	Т	Т	Т	Т	Т	T	Т	Т	Т

Iteration 0

Policy: (Cost= 21.42)

State	Action	P{i}	
1 Inventory= 0	3 Produce 2	0.18	
2 Inventory= 1	2 Produce 1	0.42	
3 Inventory= 2	2 Produce 1	0.32	
4 Inventory= 3	1 Produce 0	0.08	

Initial policy (basic feasible solution): produce a quantity sufficient to replace any units which were removed from inventory

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Iteration 1

Policy: (Cost= 19.1)

State	Action	P{i}	
1 Inventory=	3 Produce 2	0.3	
2 Inventory=	2 Produce 1	0.5	
3 Inventory=	1 Produce 0	0.2	
4 Inventory=	1 Produce 0	0	

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Iteration 2

Optimal Policy: (Cost= 16)

	State		Action	P{i}	
111111111111111111111111111111111111111		3 3 1 1	Produce 2 Produce 2 Produce 0 Produce 0	0.15 0.4 0.35 0.1	

Optimal policy:

If inventory level is less than 2, produce a quantity sufficient to fill the inventory to its capacity