Ex. 3.4

s	a	s'	p(s' s, a)	r(s, a, s')	$1, r_{\text{wait}}$ $1-\beta, -3$ β, r_{search}
high	search	high	α	$r_{\mathtt{search}}$	wait search search
high	search	low	$1 - \alpha$	r _{search}	"""
low	search	high	$1 - \beta$	-3	\ \(\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
low	search	low	β	r _{search}	1, 0 recharge
high	wait	high	1	rwait	(high)
high	wait	low	0	-	
low	wait	high	0	-	/ Y
low	wait	low	1	$r_{\mathtt{wait}}$	
low	recharge	high	1	0	search
low	recharge	low	0	-	
			'	'	$\alpha, r_{\text{search}}$ $1-\alpha, r_{\text{search}}$ $1, r_{\text{wait}}$
					,

rsearch and rwaif are overage remards. Immediate remards actually come from the set

R = [-3, 1, 0]

buttery, can no can
depleted collected

p(high | high, search) = p(high, o | high, search) = p(high, o | high, search) + px ksearch = = x => |p(high, o | high, search) = x(1 - (search))

$$p(|ou|high,search) = p(|ou,o|high,search) + p(|ou,o|high,search) = p(|ou,o|high,search) + (1-\alpha)rsearch = 1-\alpha = p(|ou,o|high,search) = (1-\alpha)(1-rsearch)$$

+ & (high low, search) = (p (high, -3 llow, search) - 1-B * r (low, search, low) = 0. p(low, o low, search) + 1. p(low, 1 low, search) = p(low, 1 low, search)

p(low llow, search) p(low llow, search)

p(low llow, search)

p = (search => p (low, 1 | low, search) = B (search * P(low, 0 /low, secuch) + p (low, 1/low, search) = p(low /low, search) p(bw,0/low/search) + B rearch = B

p(low,0/low,search) = (1-research) B * r(high, wait, high) = 0 p(high, o | high, wait) + 1 p(high, wait) = p(high, 1 | high, wait) = p(high, 1 | high, wait) 1 => p(high, 1 | high, nait) = ruait p(high, o | high, wait) + p(high, 1 | high, wait) = p(high | high, wait) p(high, ol high, wait) + reait = 1 (high 10 lhigh, wait) = 1-rwait * (low, wait, low) = 0. p(low, o | low, wait) + 1. p(low, 1 | low, wait) = p(low, L | low, wait) = mait = p(low, L | low, wait) = mait = 1 => p(low, 1/low, wait) = Ywait p(low, 0 llow, vait) = 1-rwait (Idem to p (high, olhigh, vait)) * [p (high, o | low, recharge) = 1]

tinal table

ŀ		(1 _ 1		
	5'	r	S	α	p(s,r s,a)
		1	11	\	
+	high	<u></u>	high	search	X tseaveh
	high	C	high	search	a (1 - rsearch)
	(° W	\ \	high	Search	(1-d) Kseauch
	low	0	high	Search	(1-a) (1-1search)
		-3	low	Search	1-13
	high \ow	1	low	Search	13 tsearch
	low	O	low	Search	13 (1-Yearch)
	high	0	low	vecharge	1
	Ó				