		0	ption 1	3		$n_{\cdot}$	= 0.55	s = -1					
			peioii s				$_2 = 0.5$		(x,y) :=	1			
						1 2			(x,y) :=				
	s	1	0	0	0	0	0	0	0	0	0	0	0 1
	0		1	0	0	0	0	0	0	0	0	0	0
	0	0	s	$p_1$	$1-p_1$	0	0	0	0	0	0	0	0
	0	0	0	s	0	$p_1$	$1-p_1$	0	0	0	0	0	0
	0	0	$1-p_2$	0	s	0	$p_{2}$	0	0	0	0	0	0
	0		0	0	0	s	0	$p_1$	$1 - p_1$	0	0	0	0
X =	0	0	0	$p_1 \cdot (1 - p_2)$	$1-p_1$	0	s	0	$p_1 \! \cdot \! p_2$	0	0	0	0
	0	0	0	0	0	0	0	s	0	$1-p_1$	$p_1$	0	0
	0	0	0	0	0 p	$_{1} \cdot \left(1-p_{2}\right)$	$1-p_1$	0	s	$p_1 \! \cdot \! p_2$	0	0	0
	0	0	0	0	0	0	0 p	$_{1}oldsymbol{\cdot}\left(1-p_{2} ight)$	$1 - p_1$	s	0	0	$p_1 \cdot p_2$
	0	0	0	0	0	0	0	0		$1-p_1$	$s+p_1$	0	0
	0	0	0	0	0	0	0	0	0	$1-p_1$	$p_1 \cdot (1 - p_2)$	$s+p_1 \cdot p_2$	2 0
	0	0	0	0	0	0	0	0	0	$1-p_1$	$p_1 \cdot (1 - p_2)$	$p_1 \! \cdot \! p_2$	s
$b \coloneqq \mathbf{n}$	at	trix	(1, ro	ws(X), Ze	$ro)^{^{\mathrm{T}}}$	i := 12							
$X_2$ :=	$X^{'}$	Г	$b^{\widehat{i}}:=1$	$X_2^{\widehat{i}}$	= matrix (	(1, rows (X))	$\left\langle C_{2} ight angle ,One ight angle ,$						
$y_2$ :=	lso	lve	$(X_2, b$	)									
			Ì.	, I									
$p_{2000}$	:= <u>(</u>	$y_{2_{_{\scriptscriptstyle{0}}}}$	=0	$\begin{array}{c} p_{1110} \coloneqq \\ p_{1011} \coloneqq \end{array}$	$y_{2_7} = 0.088$	3							
$p_{1000}$	<b>:=</b> (	$y_{2_{1}}$	=0	$p_{1011} \coloneqq$	$y_{2_8} = 0.148$	3							
$p_{2010}$	:= <u>(</u>	$y_{2}$	= 0.03 - 0.05	$p_{2111} = 6$	$y_{2_9} = 0.178$	0							
$p_{1010}$	·- ;	$y_{2_{3}}$	=0.05 =0.07	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$y_{2_{10}} - 0.14$	9							
$p_{2110}$	:= ′	$u_2$	=0.07	$p_{0111} = p_{1111} = p_{11111} = p_{1$	$y_{2_{11}}^{10} = 0.01$ $y_{2}^{10} = 0.04$	9							
$p_{2011}$	:= <u>'</u>	$y_2^{z_5}$	=0.12	9	32 <sub>12</sub>								
- 2011		-6											
		/1	$-n_{i}$ ).	$n_{\circ} \cdot (n_{\circ}) +$	$-n_{1011}+n_{01}$	+ n	+ n <sub>0111</sub> )						
$P_{deny}$	, <b>:</b> =	/_	P1)	$p_2 \cdot (p_{2011} + p_{2000} + p_{2010} + p_$	$P_{1011} + P_2$	111 · P1111	= P0111/ =	0.282					
					$+p_{2110}+p_{2110}$	$p_{2011} + p_{2111}$							
$P_{block}$	<sub>2</sub> :=	$p_{01}$	$p_0 + p_0$	$_{111} = 0.168$									
$L_{queu}$	<sub>e</sub> :=	<b>-</b> 1•	$(p_{1110}$	$+p_{2110}+p_{2}$	$p_{0110} + p_{0110}$	$+p_{0111})=0$	0.505						
$L_{toker}$	nsA	vg :=	= $1 \cdot (p_i$	$p_{2010} + p_{1001}$	$+p_{1010})+2$	$2 \cdot (p_{2011} + p_{2011})$	$p_{2110} + p_1$	$_{110} + p_{1011})$	+3 (p	$_{2111} + p_0$	$_{110}+p_{1111}$	$+4 \cdot p_{0111}$ :	=2.244
				=0.718		`		Í Í	,				
		`	- 1		L m	1 2	1 m						
$A \coloneqq -$	//1	- I	$p_{2}$ · ( $p$	$p_{2011}$	$+p_{1011}+p_{1011}$	$_{2111}$ + $p_{1111}$	$+ p_{0111}))$	-=0.299					
				leng	$\sum_{i=0}^{ ext{th } (y_2)-1} y_{2_i}$								
					$i=0$ $g_{2}$								
4		(1	$-p_1 angle$ .	$p_2$ • $(p_{2011}$ +	$-p_{1011} + p_2$	$_{111} + p_{1111}$ -	$+p_{0111})$	0.110					
$A_{deny}$	,:=	\	/	$p_2$ • $(p_{2011}$ +	$gth(y_2)-1$	-11 - 1111	= 3111/	0.118					
					$\sum_{i=0}^{r} y_2$	i							
W		<u>_</u> _	$L_{queue}$	=1.214		$W_{tokens}$	$L_{tol}$	$\frac{kensAvg}{=5}$	.391				
que	$ue$ $\cdot$	A	$1+\overline{A_{de}}$	ny		'' tokens	Avg = A +	$A_{deny}$ = 0.	.501				