						1
*	Decision	Tree	°-75 m	e Footoe	1 60 , 2 7 2000	
	Instance	91	qo	93	classification	
	7	True		High	TO MONOTON	
	2	True		High	No	
	3	False	Hot	High	yes	
	4	False	COOL	Normal	905	
	5	False	C001	Normal	Yes	
	6	True	C001	High	No	
6.	7 . 1	True	1-10+	High	CHOO NO COM	
	8	True		Normal	yes	
	9	False	0001	Normal	yes	
	10	Falset	C001	High	Ye5	
[(2)=	For Entr					
	clossifi	milno	Total	01.00.0	: /	
	465		G			
6			4			
	200		10	POSE . 0		
			10			
-	Entropy (D) = $-\frac{6}{10}$ $\frac{109}{10}$ $\frac{4}{10}$ $\frac{4}{10}$					
-	= 0.9709 [: 109 30 = 109 10 9					
	Tobal	one	2313	20 00	voice to with	0,3
		2	0		6011	
4	orain of	07	1.1		1007	
7	0(013) 01	44				

Vision

						1-0		
	Main (D an)	- Foodwar		- Enda	100 C 91) ~		
	Main (D, 91) = Fntropy(D) - Fintropy(91)							
	Distinct	405	2000	Total	A CONTRACTOR			
	values in at	4074						
	010	1 7/						
	Tru'e							
	Fa15e	5 5	0	5	42			
	AAP	DESCRIPTION OF THE PROPERTY OF			7			
	5.4	45314	1000	3357				
	Entropy (97)	= 5 X	-4:	109 / 1	7-4	109 (4)		
	Entropy (97)	3000	5	32 -	5	2 2		
	3410	10 months	(000	33108	P			
	2317	10714	1,50	+.201	<u>a1</u>			
	50×[-5 109, (5) -10 109, (0)]							
	$\frac{5 \times \left(-5 + 109_{2} \left(\frac{5}{5}\right) - 0 + 109_{2} \left(\frac{0}{5}\right)}{10 + 5}$							
	= 0.7219 X 52							
	10 358							
			12		010	0		
	= 0.3609 01							
():	in main -c n.	791) = C	9709	- 0.30	09- 6-	7		
	(0.000) = 0.9709 - 0.3609 $= 0.6099$							
	20 00 min	7						
7	main of age : 1 page :							
	Distinct value in 92 yes no Total							
		2	3	5				
	Hot		10		. 10 /4			
	Cool		4	1	10			
vision								

	Main (D, 92) = 0.9709 - $\begin{cases} 5 & -21092 \\ \hline 10 & 5 \end{cases}$ $\begin{array}{c} 5 & 5 \\ \hline \end{array}$ $\begin{array}{c} 1092 \\ \hline \end{array}$ Hot					
	+					
E	$\frac{5 \left(-\frac{4}{10} + \frac{109}{5} + \frac{1}{5} + \frac{109}{5} + \frac{1}{5} + \frac{109}{5} + \frac{1}{5} + $					
	= 0.1245					
\Rightarrow	chains of 1932 on APIH told					
C	Distinct values in a 465 mon Total high and 124 400 6 normal 46 100					
10	Main (10, 93) = 0.9709 - \(\frac{6}{10} \) \(\frac{2}{6} \) - \(\frac{4}{6} \) \(\frac{6}{6} \)					
	1092 (4) 1092 (4) 1000') (3) (4)					
	4 - 4 109 ₂ (4)					
vision						

					F		
	$= 0.4200$ Chaim (D, 91) = 0.6099 \rightarrow Maximum						
	chain CD	,92) =	0, 1245				
	2001 4-		91	Carre)			
	51,2,6,7,83 (yes) 53,4,5,9,103						
-	New Data						
	Instance	92	43 High	classification	any de		
	2060	Hot,	High so	No No lave to a	72,480		
	& ')	COOL	High	No 493 2			
	4 1	H0+	Normal	yes	C		
11 - (Fritropy (D) = -1 1092 (1) - 4 1092 (4) 5 5 5						
	1: 0.7219						
	Dist. Value in classification yes		count				
			1				
	no	1201	5 5				
vision							

> crain of -a2 : chain (D, 92) = Entropy(D) - Entropy(92) $= 0.7219 - \left(\frac{4}{4}\right) \frac{1}{1092} \left(\frac{1}{4}\right) - \frac{3}{4} \frac{1092}{4}$ I [-1 1092 (1)] = 0.0729 no total Disti. Values in 42 yes 3 1 HOT 0 7 C001 > main for 93 Disti. Value yes +0+41 no 4 High 0 0 Normal

