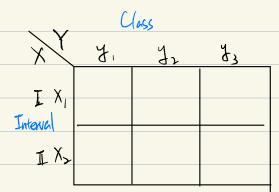
*	D7scret[z	zaton = 7	- Yan <b>storm</b>	careinuous	attributes ruto	discrete ones.
						定Titarual数量
				•		arnal 可裝置

Continuous X: K 1 1 1 max.

- Two catagories of discretization methods
  - I. Un supervised (非監督式): Equal worth, equal farquency.
  - 2. Supervised (監督式): Entropy based, chi-merge, 大部份占優勢 依資訊量多屬區分 (Implementation 較複雜
  - 一 Chrimerge = 用卡方值的概念求獨立性(檢定)

The formula for computing the  $\chi^2$  value is:

$$\chi^2 = \sum_{i=1}^m \sum_{j=1}^k \frac{(A_{ij} - E_{ij})^2}{E_{ij}}$$



\* Tristance 数=初始 Tuterval 数

Entropy (S) = 
$$\sum_{i}$$
 - P(c<sub>i</sub>) log, P(c<sub>i</sub>)

	P(C1)	P(cs)	Entropy	Entropy	
S <sup>(()</sup>	1	O	0		
50)	0	1	0		
5(3)	7	7	l		
				0	

-> Gam (S.x)越大越好.

一演算法重複往下分割, unal 停止條件.

X Unsupervised
— Equal width: $W = \frac{x_{max} - x_{m}}{n}$ , n Tutervals ( $\overline{b} = -\frac{10}{10}$ )
Splitting point = Xmin+kw, k=1.2.3n-1
— Equal frequency: In Instance
The trequency in each interval m : L (整数)
Sorting X(1) < X(5) < X(5) < X(6) < < X(m)
Splitting point = X(ik) + X(ik+1) , k=1.23 n-1
· —