Income	Pi	ni	Pi, mi
high	2	2	1
medium	4	1	0.7219
low	2	1	0.9182

$$I(2,2) = \frac{-2}{4} \log_2(\frac{2}{4}) - \frac{2}{4} \log_2(\frac{2}{4}) = 1$$

$$I(4,1) = -\frac{4}{5} \log \left(\frac{4}{5}\right) - \frac{1}{5} \log_2 \left(\frac{1}{5}\right) = 0.7219$$

Gain (income) = Into (0) - Into income = 0.9183-0.8637 = 0.0546

/89 VIO					
age	q;	ni	(pi, ni)		
C= 30	2	2	1		
31 90	3	O	O		
7 46	3	2	o.971		

$$I(32) = \frac{1}{4} \log_{2} \left(\frac{2}{4}\right) - \frac{2}{4} \log_{2} \left(\frac{2}{4}\right) = 1$$

$$I(3p) = \frac{-7}{5} \log_{2} \left(\frac{2}{3}\right) - \frac{3}{3} \log_{2} \left(\frac{9}{5}\right) = 0$$

$$I(3,2) = \frac{-3}{5}\log_2(\frac{3}{5}) - \frac{2}{5}\log_2(\frac{2}{5}) = 0.991$$

$$Inf_{\sigma}(0) = I(8,4) = -\frac{8}{12}log_{2}(\frac{8}{12}) - \frac{4}{12}\sqrt{log_{2}(\frac{4}{12})} = 0.9183$$

Infoage (0) =
$$\frac{4}{12}$$
 I(4,0), $\frac{3}{12}$ I (4,0), $\frac{5}{12}$ I (3,2)
= $\frac{4}{12}$ (1), $\frac{3}{17}$ (0), $\frac{5}{12}$ (0.971) = 0.7399