age	income	student	credit_rating	buys_computer
<=30	high	no	fair	no
<=30	high	no	excellent	no
31…40	high	no	fair	yes
>40	medium	no	fair	yes
>40	low	yes	fair	yes
>40	low	yes	excellent	no
31…40	low	yes	excellent	yes
<=30	medium	no	fair	no
<=30	low	yes	fair	yes
>40	medium	yes	fair	yes
<=30	medium	yes	excellent	yes
31…40	medium	no	excellent	yes
31…40	high	yes	fair	yes
>40	medium	no	excellent	no

age

	Y	N	
<=30	2	2	4
31..40	3	0	3
>40	3	2	5

student

No	3	3	6
Yes	6	1	7

income

h	2	2	4
m	4	2	6
L	3	1	4

credit

f	6	2	8
e	3	3	6

Class $Info(D) = \sum_{i=1}^{m} p_i \log_2(p_i)$

$= I(8, 4)$

$= -\frac{8}{12}\log_2\left(\frac{8}{12}\right) - \frac{4}{12}\log_2\left(\frac{4}{12}\right) = 0.918$

Feature $Info_{age}(D) = \frac{4}{12} I(2,2) + \frac{3}{12} I(3,0) + \frac{5}{12} I(3,2) =$

$Info_{income}(D) = \frac{4}{12} I(2,2) + \frac{5}{12} I(4,1) + \frac{3}{12} I(2,1) =$

$Info_{std}(D) = \frac{6}{12} I(3,3) + \frac{6}{12} I(5,1) =$

$Info_{credit}(D) = \frac{7}{12} I(6,1) + \frac{5}{12} I(2,3) =$