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

14 tuples, 4 attributes, buys_computer is the class attributes, two classes.

We calculate the information gain for each attribute.

age

<= 30

Income	Student	Credit_rating	Class
High	No	Fair	No
High	No	Excl	No
Med	No	Fair	No
Low	Yes	Fair	Yes
Med	Yes	Excl	yes

30-40

Income	Student	Credit_rating	class
High	No	Fair	Yes
Low	Yes	Excl	Yes
Med	No	Excl	Yes
High	Yes	Fair	Yes

> 40

Income	Student	Credit_rating	class
Med	No	Fair	Yes
Low	Yes	Fair	Yes
Low	Yes	Excl	No
Med	Yes	Fair	Yes
Med	No	Excl	No