> help(cut)

> lead\_rate <- cut(air$lead\_fare/air$dis,

+ breaks=c(0,0.14,0.21,100),

+ labels=c("low","med","high"))

> head(lead\_rate)

[1] high med high high high low

Levels: low med high

> tapply(air$fare,lead\_rate,sd)

low med high

41.62865 59.76481 59.98990

See the function above, the result is correct by checking the hint.