9. 齊一性檢定

[間斷型資料的統計分析]

~~~~~~~~~~~~~~ 選擇 ~~~~~~~~~~~~~~~~

1. The goodness of fit using the pearson chi square test statistic
2. The independent test (cross analysis) of two discrete random variable
3. The homogenous test
4. One population proportion test(With Replacement)
5. One population proportion test(Without Replacement)
6. Two independent population proportions difference test
   (With Replacement)
7. Two independent population proportions difference test
   (Without Replacement)
8. Two dependent population proportions difference test
   The proportions are the probability of multi-nomial distribution.
9. return

選擇 3，

Output data，

[　　　This analysis is indepdenent test (cross analysis)　　　]

There are two discrete type factors A and B.

The A factor has 4 categories, the B factor has 3 categories.

---- the observed sample number of each cell

	A1	A2	A3	A4	marginal
B1	10.00	20.00	30.00	40.00	100.00
B2	10.00	20.00	30.00	40.00	100.00
B3	10.00	20.00	30.00	40.00	100.00
marginal	30.00	60.00	90.00	120.00	300.00

---- the expected sample number of each cell

	A1	A2	A3	A4	marginal
B1	10.00	20.00	30.00	40.00	100.00
B2	10.00	20.00	30.00	40.00	100.00
B3	10.00	20.00	30.00	40.00	100.00
marginal	30.00	60.00	90.00	120.00	300.00

~~~~~~~~The B factor spool probability

P(B1)=0.333333

P(B2)=0.333333

P(B3)=0.333333

degree of freedom=6

H0: Factor A and factor B are independent

pearson chi-square test statistic =0.000000

p-value=1.000000

sample number　The Homogenous test scatter diagram

40.0

B1

10.0

0.0　1.0　2.0　3.0　4.0　5.0　Factor A

sample number　The Homogenous test scatter diagram

40.0

A4

A3

A2

10.0

A1

0.0　1.0　2.0　3.0　4.0　Factor B

(Factor A,Factor B,sample no) 3D scatter diagram

sample number

Factor B

60.000000

0

10.000000

0　5　Factor A