

Program Name: **gofind_t**

Language: SAS

Objective: Establishing approximate independence in a two-way contingency table, computation of the test statistic and its critical bound

Input:

ALPHA	significance level
R	number of rows
S	" " " columns
EPS	maximum tolerable distance between the true cell probabilities and their values expected under the model of independence
PATH	full pathname of the file containing the observed cell counts (arranged in a vector generated by putting the rows of the observed two-dimensional table one after the other)

Output:

N	sample size
ALPHA	cf. input list
EPS	" " " "
R	" " " "
S	" " " "
X1,X2,...	observed cell counts as read from the input file
DSQ_OBS	observed squared distance between estimated and expected cell probabilities
VN	estimated squared standard error of the random variable behind $N^{1/2} \times DSQ_OBS$
CRIT	critical upper bound to which DSQ_OBS must be compared
REJ	indicator of the decision to be taken [REJ=1 \Leftrightarrow rejection of the null hypothesis of marked departures from the model of independence; REJ=0 \Leftrightarrow acceptance of H]