Program Name: **mawi**

Language: SAS

Objective: Mann-Whitney test for equivalence of two continuous distributions, computation of the test statistic and its critical upper bound

Input:
ALPHA   significance level
M   sample size in Group 1
N   "   "   "   "   "   2
EPS1_   distance from 1/2 of the left-hand endpoint of the equivalence range
           for $\pi_+ \equiv P[X_i > Y_j]$
EPS2_   distance from 1/2 of the right-hand endpoint of the equivalence range
           for $\pi_+ \equiv P[X_i > Y_j]$
PATH   full pathname of the file containing the set of raw data

Output:
ALPHA   value read from input file
M   "   "   "   "   "   "   "
N   "   "   "   "   "   "   "
EPS1_   "   "   "   "   "   "   "
EPS2_   "   "   "   "   "   "   "
WXY   observed value of the Mann-Whitney statistic
SIGMAH   estimated standard error of WXY
CRIT   critical upper bound to the absolute value of the centred, standardized test statistic
REJ   indicator of the decision to be taken [REJ=1 <=> rejection of the null hypothesis of inequivalence; REJ=0 <=> acceptance of H]