

Program Name: **bi2ste3**

Language: Fortran

Objective: Computation of a maximally increased nominal significance level for an improved nonrandomized version of the exact Fisher type test for one-side equivalence (noninferiority)

Input¹⁾:

M	size of Sample 1
N	" " Sample 2
EPS	1-EPS = lower equivalence limit to the odds ratio
ALPHA	level of significance
SW	width of the lattice of points on the boundary of the hypotheses to be searched through for the maximum of the (unconditional) rejection probability
TOLRD	distance of the smallest and largest point of the lattice from the boundaries of the unit interval
TOL	target value of the absolute difference between exact size and nominal significance level
MAXH	maximum number of steps to be performed in the interval-halving part of the algorithm

Output²⁾:

M	value read from input file
N	" " " " " " "
EPS	" " " " " " "
ALPHA	" " " " " " "
SW	" " " " " " "
TOLRD	" " " " " " "
TOL	" " " " " " "
MAXH	" " " " " " "
ALPH_0	nominal significance level to be used in an improved nonrandomized test of size $\leq \text{ALPHA} + \text{TOL}$
NHST	number of interval-halving steps carried out
SIZE	exact size of the nonrandomized test at nominal level ALPH_0

¹⁾ to be read from the file specified in the first OPEN statement

²⁾ written to the file specified in the second OPEN statement