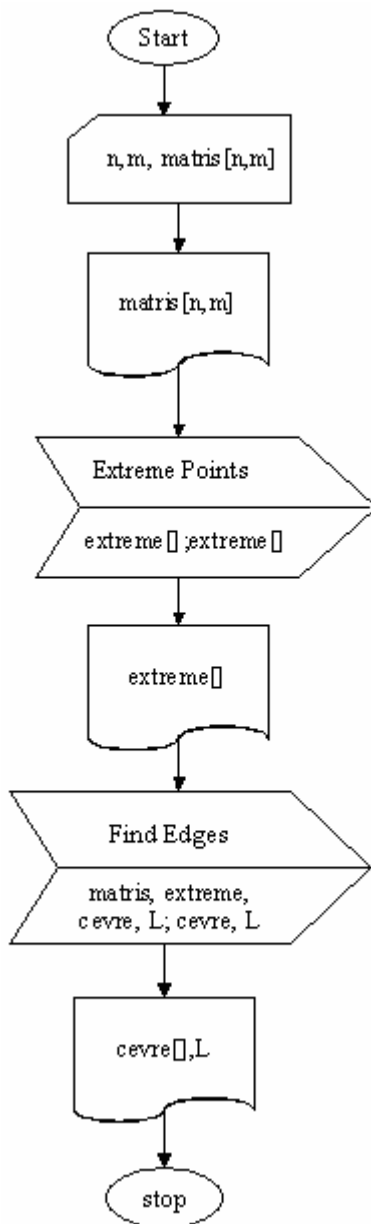


# The Algorithm of Convex Hole

## General Algorithm



Used variables in program:

matrix[] : An  $n*m$  size matrix contains 1 & 0's. This is main matrix.

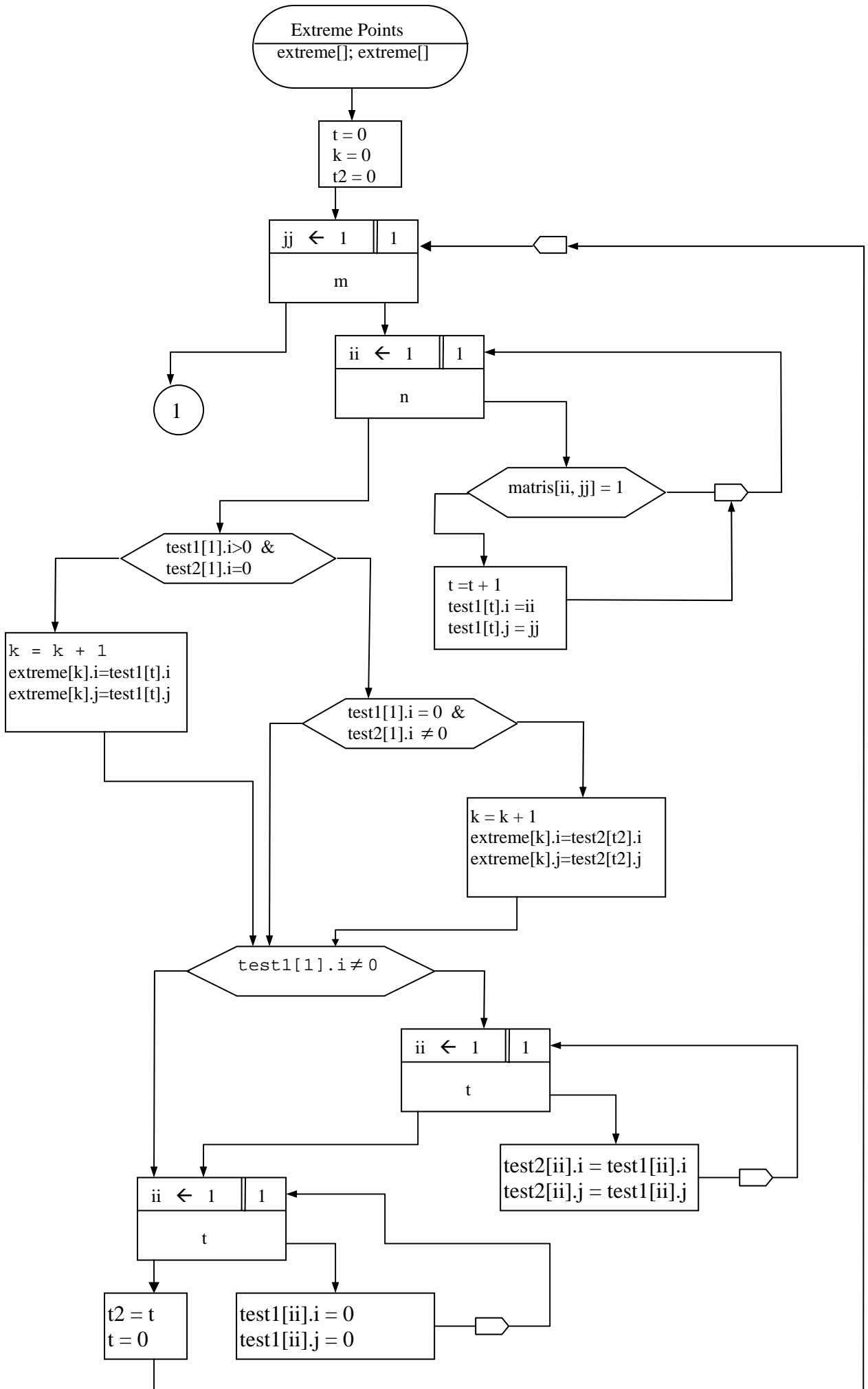
extreme[]: 4 extreme (left, right, up, down) points (structure).

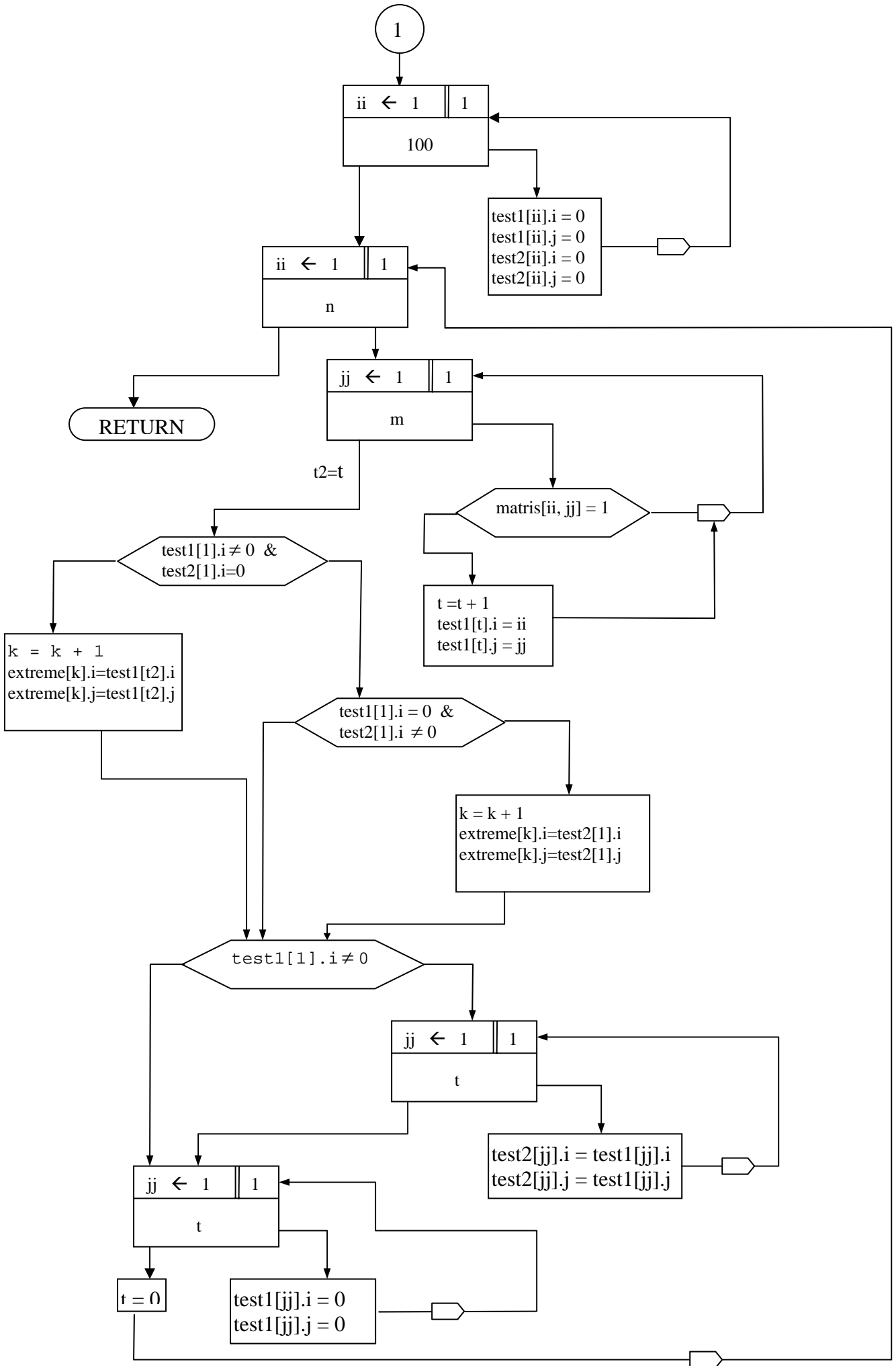
cevre[] : An array contains edge of Convex Hole(structure)'s contour points.

L : size of cevre[].

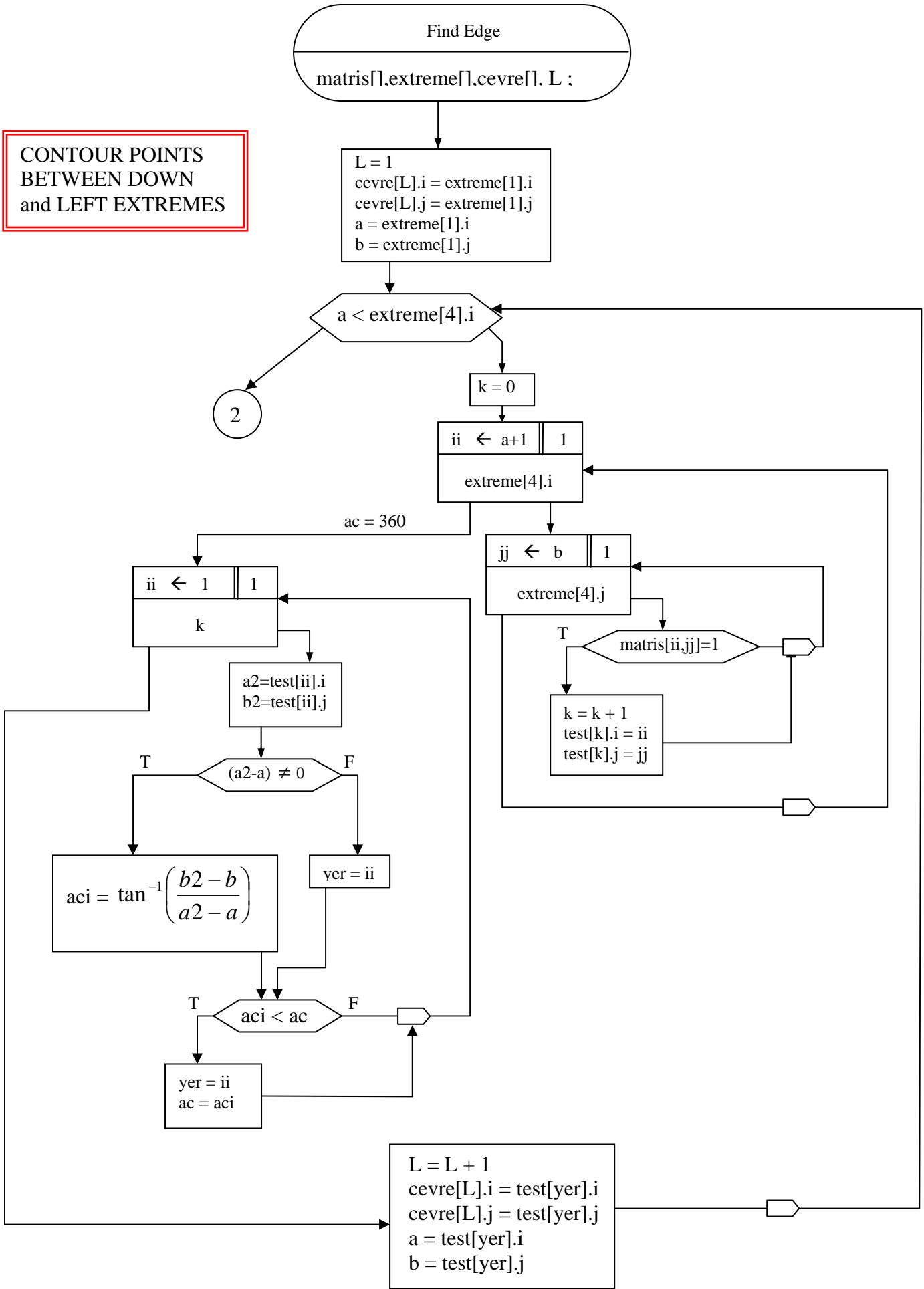
test1[], test2[] : Temporary arrays while finding extreme points.

test[] : Temporary array while finding the contour points.

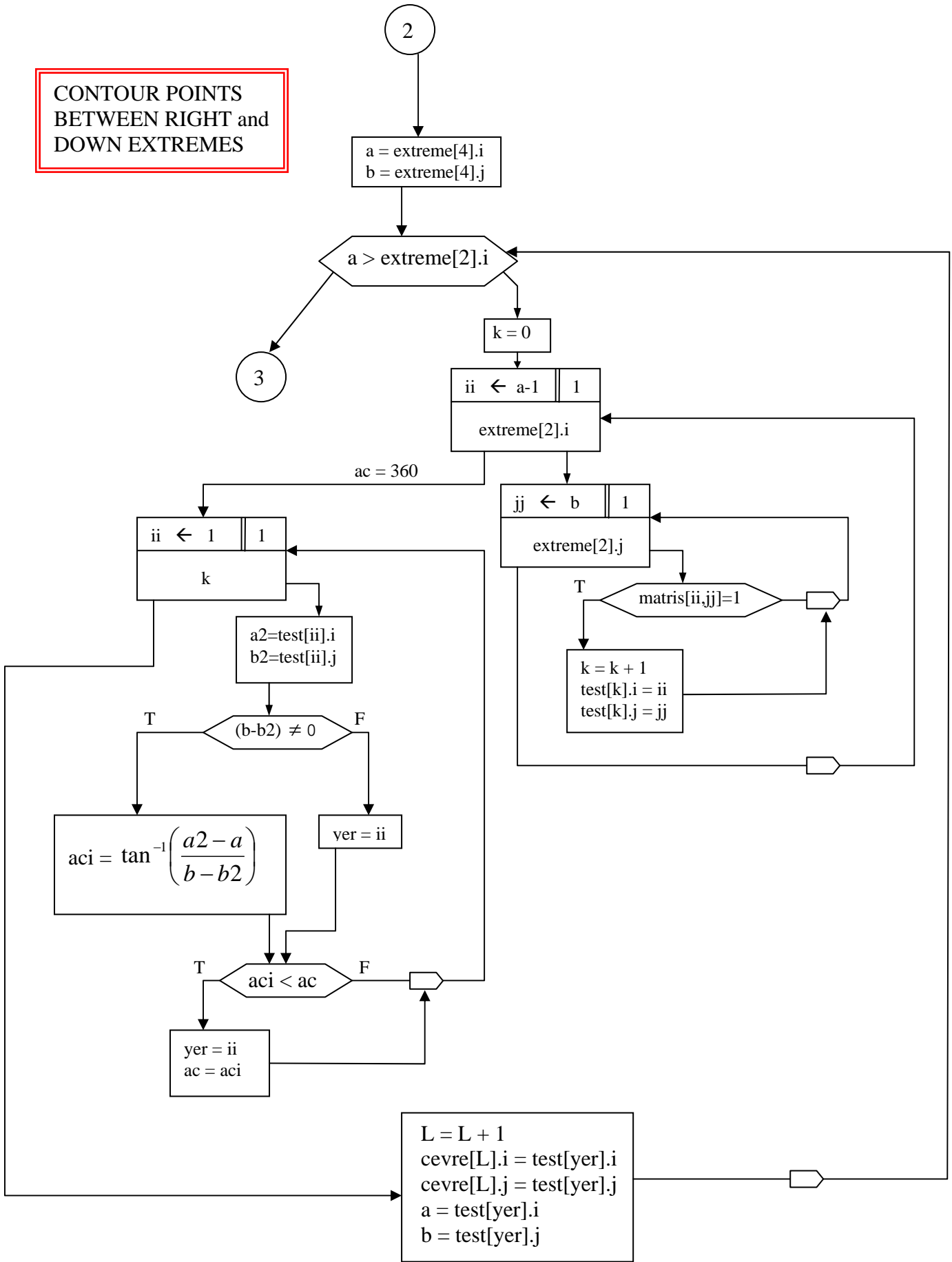




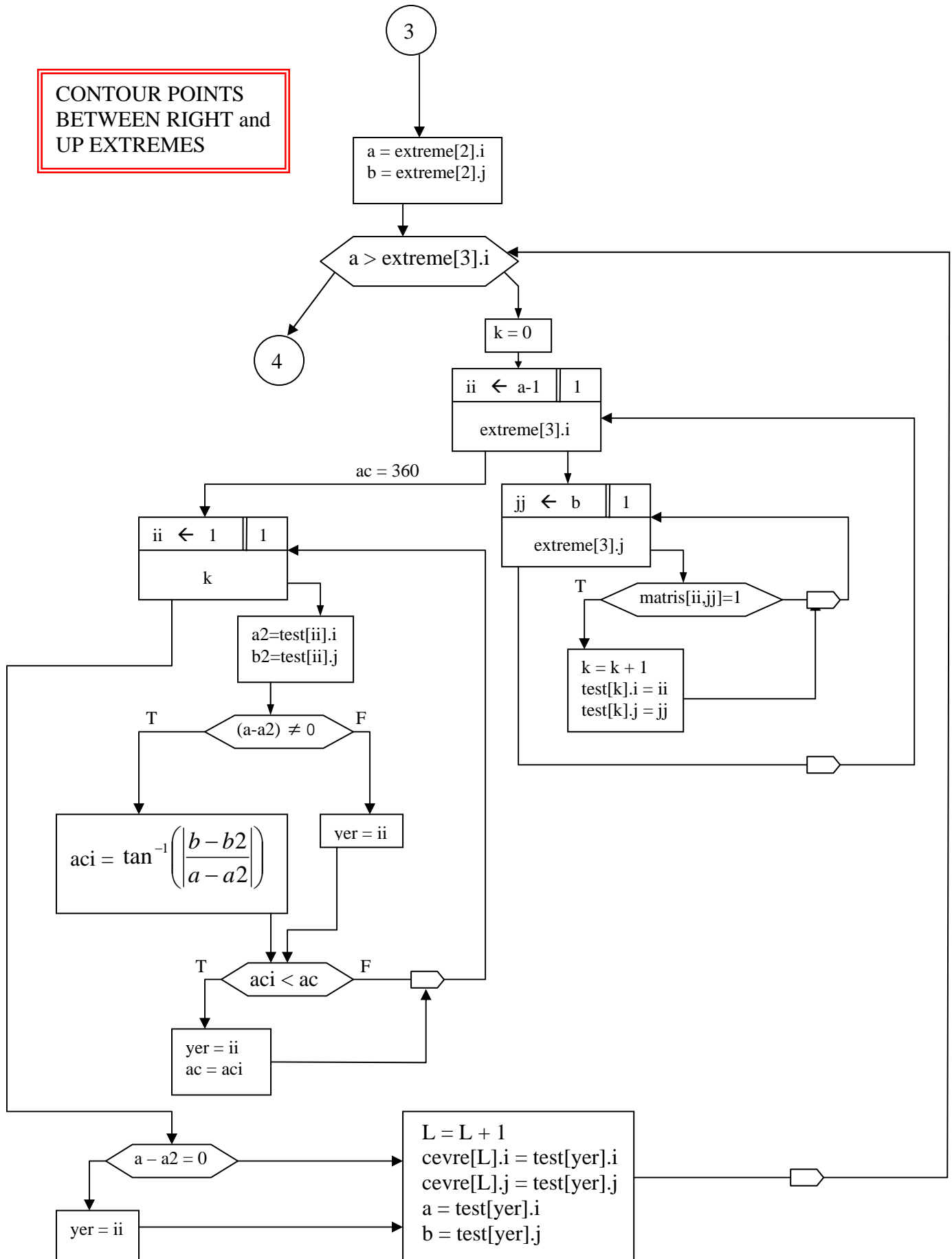
CONTOUR POINTS  
BETWEEN DOWN  
and LEFT EXTREMES



**CONTOUR POINTS  
BETWEEN RIGHT and  
DOWN EXTREMES**



**CONTOUR POINTS  
BETWEEN RIGHT and  
UP EXTREMES**



CONTOUR POINTS  
BETWEEN UP and  
LEFT EXTREMES

