











function
findFirstLocalMinimum
(Matrix matrix): int;

double array[][] := matrix.getMatrix();

A1
for i from 0 to matrix.getRows()

A2
for j from 0 to matrix.getColumns()

array[i][j] < array[i][j-1]
and
array[i][j] < array[i][j+1]

No

A

Yes

findFirstLocalMinimum :=
(j + i * matrix.getColumns());

B

A

A2

A1

findFirstLocalMinimum := -1;

End of function

B