

## מחשוב מקבילי ומבוזר

### תרגיל כיתה #3

The purpose of this exercise is to familiarize  
with MPI Cartesian topology

Problem definition:

Start  $K \times N$  processes and define a Cartesian grid with  $K$  rows and  $N$  columns.

Each process will define a random number and will assign it to the variable **value**.

Calculate and display a Manhattan Distance from the process with rank  $r$  to the process which has a maximum value among all processes.

Requirements:

Use Collective operations where possible.

Pass  $K$ ,  $N$ ,  $r$  as arguments to the **main()**

בהצלחה