Benchmarks

For each benchmarks, 30 runs with a determined time have to be done and the
Best over all, mean, median and standard deviation values and the number of evaluations have to be report (in the pdf article with a short method description).
4 benchmarks of the “Pieces set 2” of Yahoo List have to be tested in your Paper with the indicated time limit:

- 10 * 10 (pieces_10x10.txt) -> 1200 seconds
- 12 * 12 (pieces_12x12.txt) -> 1800 seconds
- 14 * 14 (pieces_14x14.txt) -> 2400 seconds
- 16 * 16 (pieces_16x16.txt) -> 3600 seconds

Deliverable of your source code

In a README file, you should explain how to compile your code. Please name your file by your name (Candidatename).
The executable file will be execute with this command for Linux:
> ./Candidatename **benchmarchFile TimeLimit(in seconds) solutionFileName**
For windows:
> Candidatename.exe **benchmarchFile TimeLimit(in seconds) solutionFileName**

Solutions returned by your codes have to be given as described in the next slide !
Solutions must be valid (border contains only 0)

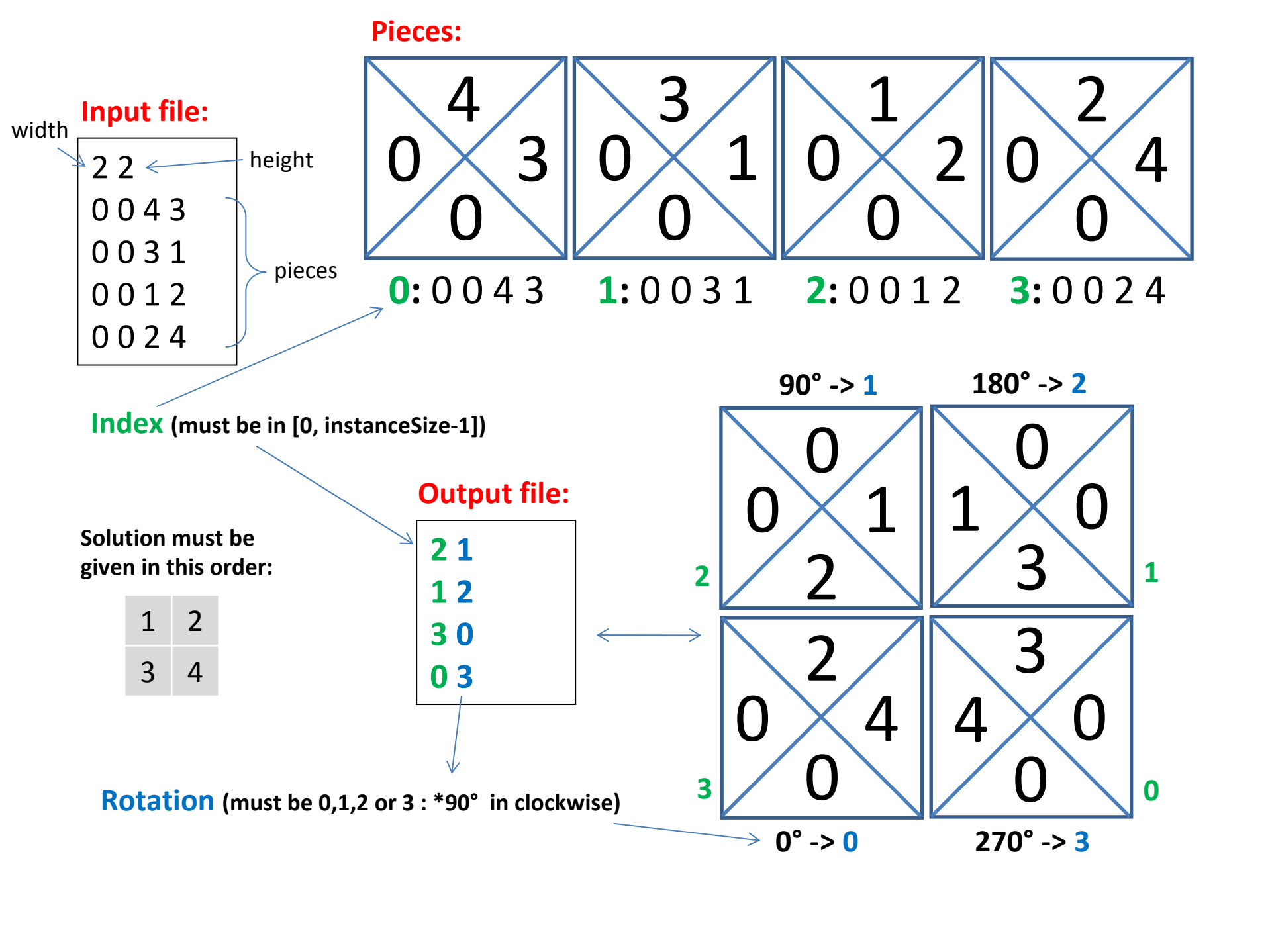
They will be evaluated by the code “eval.cpp”.

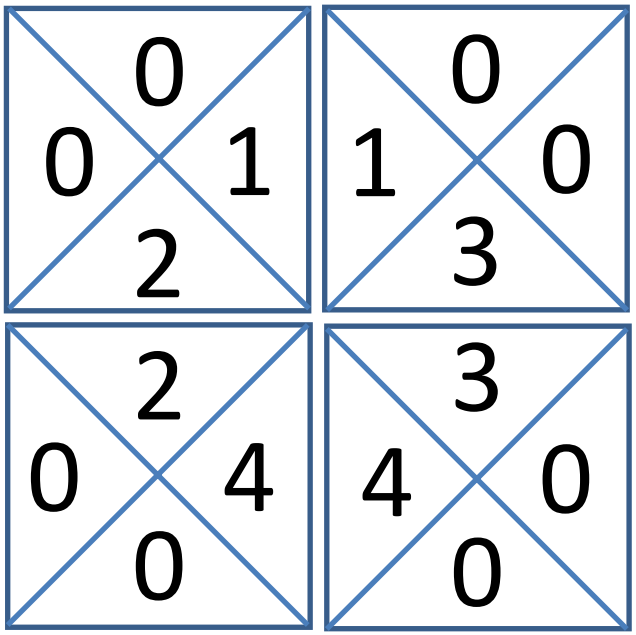
It computes a score: number of correctly-matched pairs of edges.

This score has to be maximized.

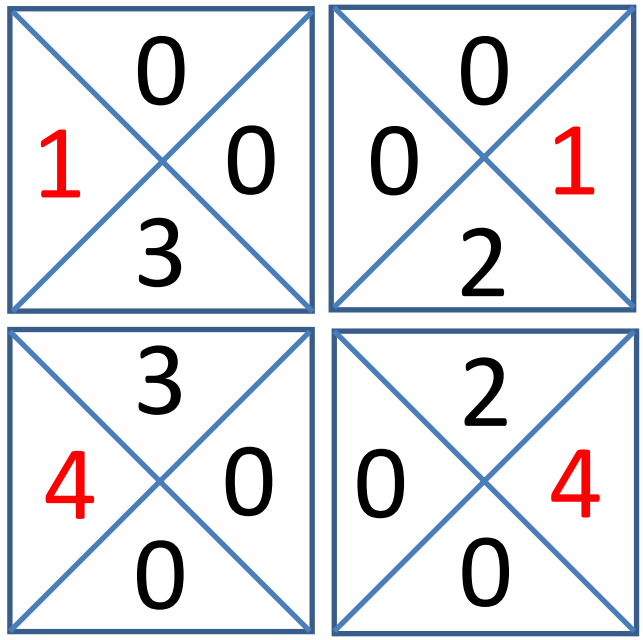
We advice you to verify your solutions with this code.

Use:
./eval benchmarkFile solutionFile
*An example is given for the benchmark 3*3:*
./eval pieces_03x03.txt sol.txt


Pieces:
4
0
3
0
3
0
1
0
1
0
0
2
0
2
0
4
0
0: 0 0 4 3
1: 0 0 3 1
2: 0 0 1 2
3: 0 0 2 4
Input file:
width
height
2 2
0 0 4 3
0 0 3 1
0 0 1 2
0 0 2 4
pieces
Index (must be in [0, instanceSize-1])
Output file:
2 1
1 2
3 0
0 3
Solution must be given in this order:
1 2
3 4
Rotation (must be 0,1,2 or 3 : *90° in clockwise)
90° -> 1
180° -> 2
0° -> 0
270° -> 3
2
1
3
0



Valid Solution



Invalid Solution

Ranking and winners

The ranking will be done on a unknown benchmark.