## Block Puzzle

Data Structures, 2020 Spring, EECS, NTHU

https://acm.cs.nthu.edu.tw/problem/12724/



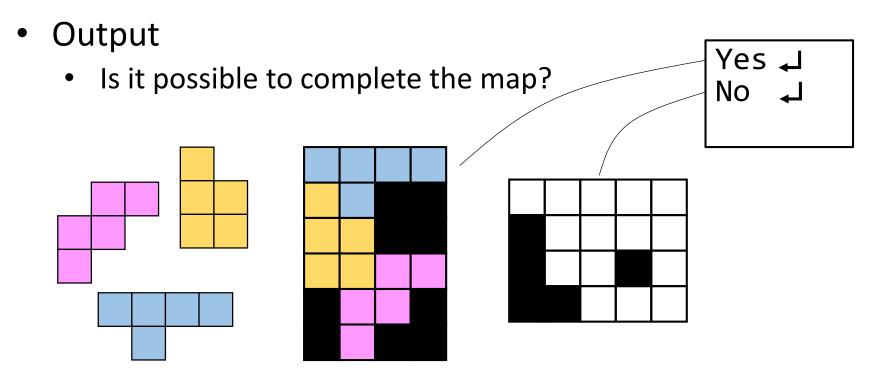
#### Descriptions

- This will be a useful tool for you to solve block puzzles
- There will be 12 test cases
  - 10 for basic requirements
  - 2 for bonus

Input number of pieces English char, the "exact" width and height of the piece 4 2 Big 'O' 0000 shape 1<sup>st</sup> piece Minus No need to handle 0-2<sup>nd</sup> piece 00 pathetic pieces, e.g., 00 -00 3<sup>rd</sup> piece -00 00--0number of puzzle maps width and height 4 6 -00 1st puzzle map 0-00 2<sup>nd</sup> puzzle map

#### Operations for the Basic Test Cases

- Each piece should be used exactly once for each map
- Rotating and flipping the pieces are not needed



## Bonus

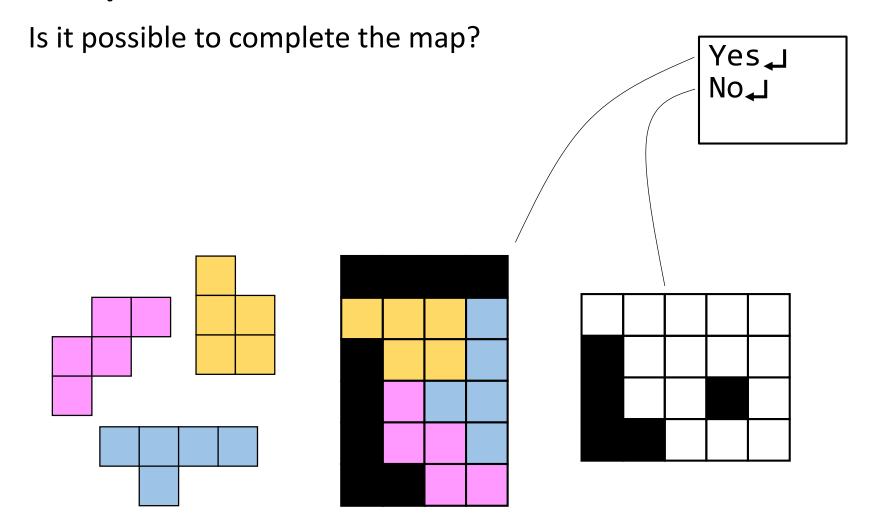
Only the last two of the testing data have these cases

# Operations for Matching Bonus

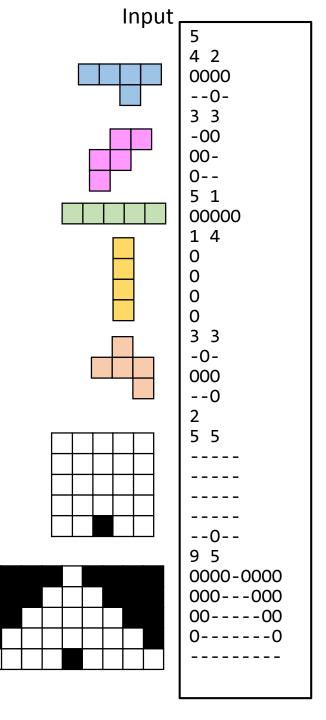
Rotating and flipping the pieces may be needed

Input number of pieces English char, the "exact" width and height of the piece 4 2 Big 'O' 0000 shape 1<sup>st</sup> piece Minus No need to handle 2<sup>nd</sup> piece 00 pathetic pieces, e.g., 00 -00 3<sup>rd</sup> piece -00 00--0number of puzzle maps width and height 4 6 0000 1st puzzle map 2<sup>nd</sup> puzzle map

### Output



# 2<sup>nd</sup> Example



Output

