Practice Arena

Practice problems aimed to improve your coding skills.

- PRACTICE-02_SCAN-PRINT
- PRACTICE-03_TYPES
- LAB-PRAC-02_SCAN-PRINT
- LAB-PRAC-01
- PRACTICE-04_COND
- BONUS-PRAC-02
- LAB-PRAC-03_TYPES
- PRACTICE-05_COND-LOOPS
- LAB-PRAC-04_COND
- LAB-PRAC-05_CONDLOOPS
- PRACTICE-07_LOOPS-ARR
- LAB-PRAC-06_LOOPS
  - Fill in the Square
  - Pretty Numbers
  - Block Cipher
  - The Fibonacci Facade
  - Stream AM GM
  - Int on Int
  - Bejewelled Brooch
  - Mobile Mixup
  - Primes are in C
  - Towering Numbers
  - A Run of One
  - Where are the primes-
- LAB-PRAC-07_LOOPS-ARR
- LABEXAM-PRAC-01_MIDSEM
- PRACTICE-09_PTR-MAT
- LAB-PRAC-08_ARR-STR
- PRACTICE-10_MAT-FUN
- LAB-PRAC-09_PTR-MAT
- LAB-PRAC-10_MAT-FUN
- PRACTICE-11_FUN-PTR
- LAB-PRAC-11_FUN-PTR
- LAB-PRAC-12_FUN-STRUC
- LABEXAM-PRAC-02_ENDSEM
- LAB-PRAC-13_STRUC-NUM
- LAB-PRAC-14_SORT-MISC

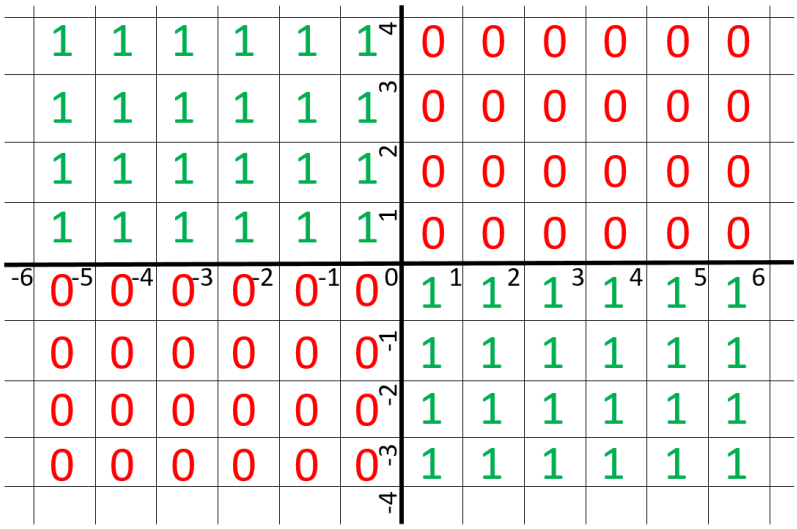
Fill in the Square

LAB-PRAC-06_LOOPS

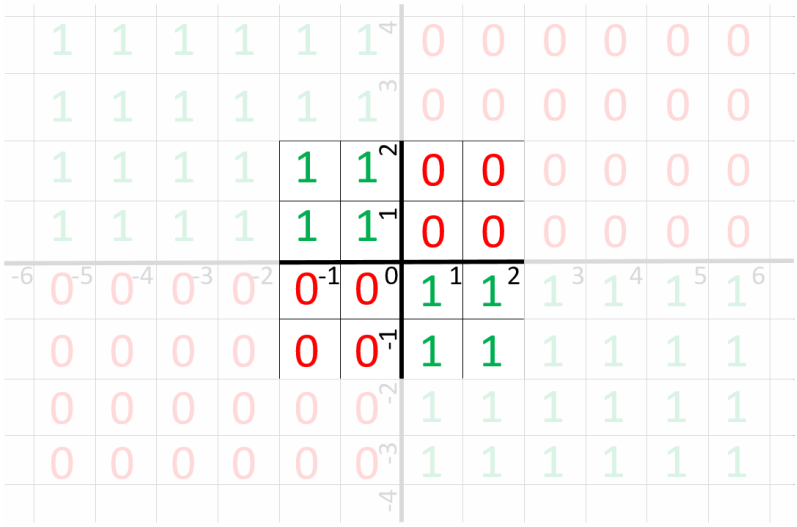
Fill in the Square [10 marks]

Problem Statement

The entire Cartesian plane has been divided into unit squares. Squares in the 1st and 3rd quadrant are filled with 0 and squares in the 2nd and 4th quadrant are filled with 1 as shown below.



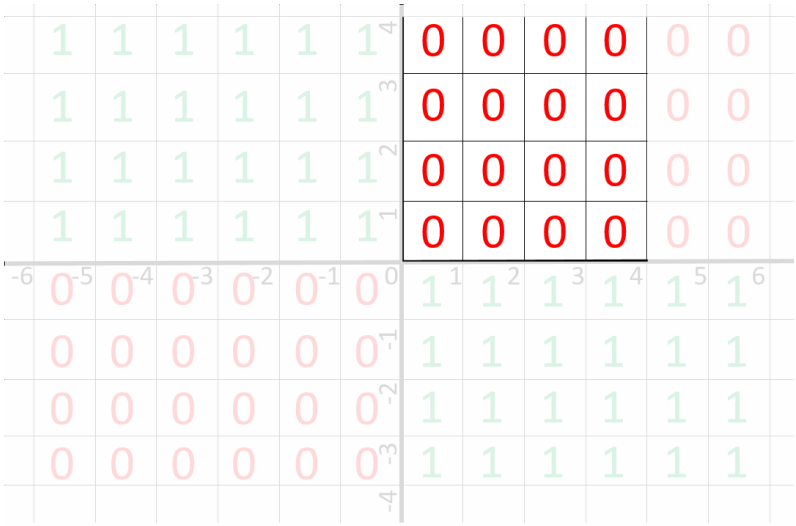
You are given the side length (**always a non-negative integer**) of a square and the **integer** coordinates of its bottom left corner. You have to show us in your output, what that square looks like. For example if the side length is 4 and the bottom-left corner is (-2,-2), then the square looks like



In this case you have to print

1100
1100
0011
0011

Notice that there are not spaces anywhere and no extra new lines. As another example, if the side length is 4 and the bottom-left corner is (0,0), then the square looks like



In this case you have to print
0000
0000
0000
0000

Caution

1. Remember, side length can be any non-negative integer, not just 4 as in the visible test cases. Coordinates can be negative or positive integers and can even be zero.
2. Be careful about extra/missing lines and extra/missing spaces.
3. Be very careful, even though the evaluation may give you marks for extra spaces and newlines, the autograder will give you zero marks for any extra spaces or new lines.

EXAMPLE:
INPUT
4 -2 -2

OUTPUT:
1100
1100
0011
0011

Grading Scheme:
Total marks: **[10 Points]**

There will be no partial grading in this question. An exact match will receive full marks whereas an incomplete match will receive 0 points. Please be careful of missing/extra spaces and missing/lines (take help of visible test cases). Each visible test case is worth 1 point and each hidden test case is worth 2 points. There are 2 visible and 4 hidden test cases.

Start Solving! (/editor/practice/6110)