1. This assignment is about the game of Cram, which is played on a rectangular board with dominos (there are some alternative pieces, however). Players alternate placing a domino on the board so that it does not overlap any of those already on the board. The last player who makes a move wins the game. Play the game on and find Grundy values for all the positions given below:

2. Continued

3. Next calculate the Grundy value of the 3 by 6 game shown below.

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| :--- | :--- | :--- | :--- | :--- | :--- |
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|  |  |  |  |  |  |

3. Finally, play the game on the grids below:

|  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

(a)

(b)

(c)

