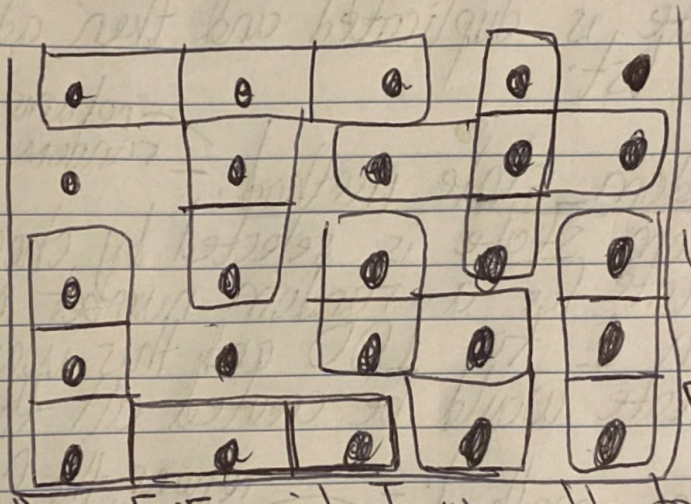
OKAGBUE ONYEKA FRANCIS #NSDD: ONO206
CMPT 317
11279373

QUESTION 1

BLOCK TILING PROBLEM

(1) tiles1.txt

```
5
+ 1
I 1
L 1
T 1
Z 1
4 1
```



the grid space left are three (3) but would be (6) if the I 1 has four spaces rather than three.

For the 5x5 grid, I was able to optimize it so that I would have fewer space. For this block tiles problem, I just have 3 grid spaces in this problem. I was able to place the tiles in a way that I could reduce the empty space in the grid and have all the tiles inserted correctly. The picture of the grid above shows how I placed the block in the grid.

PART (2.)

Yes, I would say is possible to write a program that would be able to find the optimal solution, and I would say is not possible to know if my solution is optimal because you would need to check all the possible arrangements/way that you can place block on the grid. And it could be difficult to guess how many grid spaces but I would say between one & ~~six~~ if I am to guess.