# [CS 11] Prac 0l – Moss Carpet

**oj.dcs.upd.edu.ph**/problem/cs11prac0l

## Problem Statement

Steve has bought a new carpet for his house, and it's made of moss!

The floor of Steve's house can be represented as an r×cr × c grid, i.e., a grid with r $r$ rows and cc columns. Each cell of this grid represents a 1×11 × 1 tile of the floor.

We number the rows 00 to r−1r − 1 from top to bottom, and the columns 00 to c−1c − 1 from left to right.

The carpet has dimensions r1×c1r1 × c1 and will be placed over the r×cr × c floor; The carpet will be placed in such a way that its sides are parallel to the sides of the grid, and the topleftmost cell covered by carpet is the cell in row ii and column jj.

In particular, exactly r1c1r1c1 cells will be covered by moss carpet.

What does Steve's floor look like now?

## Task Details

Your task is to implement a function called `carpet`. This function has six parameters `r`, `c`, `r1`, `c1`, `i` and `j` in that order, all `int`s, whose meanings are described in the problem statement. In particular, your function will be declared as follows:

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```
def carpet(r, c, r1, c1, i, j):
```

The function must return a `tuple` of `str`s representing an r×cr × c grid illustrating Steve's floor. More precisely, this tuple must consist of exactly rr `str`s, each of which represents a row and consists of exactly cc characters. Each character is either `.` representing a floor tile not covered with carpet, or `#` representing a floor tile covered with carpet.

### Example Calls

**Example Function Call**

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```
carpet(6, 9, 3, 4, 1, 2)
```

**Example Return Value**

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```
(
    ".........",
    "..####...",
    "..####...",
    "..####...",
    ".........",
    ".........",
)
```

### Constraints

When the program is run:

- The function `carpet` will be called at most 1,0001,000 times.
- $1 \le r \le 30$.
- $1 \le c \le 30$.
- $1 \le r1 \le r_1 \le r$.
- $1 \le c1 \le c_1 \le c$.
- $0 \le i < r0 \le i < r$.
- $0 \le j < c0 \le j < c$.
- It is guaranteed that the carpet is completely inside the floor's grid.

### Scoring

You get 100100 ❤️ points if you solve all test cases correctly.
Report an issue

## Clarifications

No clarifications have been made at this time.