Input: N= the number of blocks that we are trying to fill.

 $R_{block,g_{block}}$, b_{block} also know as M= The size of the block that we are trying to fill N with. Using the function to see how many ways the red, green and blue block

Output: The number of ways that M(r_block,g_block,b_block) and fill N.

Main Code:

```
waysofblock = [1] *M + [0] * (N-M+1)
```

It is list of two list add together. The first list is a list of 1s that is the length of the M (length of colored block) The second list is a list of 0 that is the length of N- M+1 which is the total amount of block we want to fill minus the length of the colored block plus 1.

For ii an integer from M (length of colored block) to N+1 (the total blocks we are trying to fill plus 1)

waysofblock[ii] += waysofblock[ii-1] + waysofblock[ii-M] (running through waysofblock for ii and adding to it the run through of waysofblock ii - 1 and waysofblock ii- M)

return waysofblock[N] - 1 (And then return the new waysofblock run the amount of length of block needed to be filled minus 1)

Print out number of spaces, print out function when M = 2, print out when M = 3, print out when M = 4, and print out (M=2)+(M=3)+(M=4).