Problem 7 } Flatten 3D list

Python Course

⇒ 3D list → row = no. of columns

ThreeD_List = [[[1,2,3], [4,5,6], [7,8,9]]]

To get one ← = [[[1,0], [2,0], [3,0]], [[4,0], [5,0], [6,0]], [[7,0], [8,0], [9,0]]]

in a 2D list → every list contain a list [[[]]] → Depth of a list → means → where is it and in which list.

Print (threeD_list [0][0][0])

→ Print the first one → in the first one in a list

⇒ Code:-

```
if __name__ == '__main__':

    Depth, row, cols, type, *remain = map(int, input().split())
    # D      r    c     1/2   (بياخد الانبوت)

    if Type == 1:
        # dB = Rows * Cols → single depth Block
        # rb = Cols → r Block
        # cb = 1 → Column Block.
        d, r, c = remain
        idx = d*db + r×rb + c×cb
        Print(idx)
    else:
        idx = remain[0]
        d = idx // dB
        r = idx % db // rb
        c = idx % db % rb
        Print(d, r, c)
```