Use grid of N\*M size

Room can contain couch , lamp , tv , table . the object e denotes a free spot (empty cell in the grid)

Length of room1 & room2 is 5 , room3 is 4

statsList : list of pairs -----🡪 (an object X , list of lists ) . the list consists of two inner lists :-

1st , list of elements that appeared to the right of x with their frequencies as a pair (element, frequency) sorted starting with the highest frequency

2nd list of elements that appeared below the object x with their frequencies as mentioned above and also sorted

tvNexte ([[[x]]]:xs) = countForTvE x + countForTvE xs

countForTvE [] = 0

countForTvE [x] =0

countForTvE ([x]:[x1]:xs) | x== "e"&& x1== "tv" = 1+ countForTvE ([x1]:xs)

| otherwise = countForTvE ([x1]:xs)

Pattern nddeef shwaia

tvE (x:xs) = tvEHelper [x] + tvEHelper xs

tvEHelper ([x]:[x1]:xs) | x=="e" && x1 == "tv" = 1+ tvEHelper ([x1]:xs)

| otherwise = tvEHelper ([x1]:xs)

-- counts the number of tvs that're next to e

tvE (x:xs) = tvEHelper [x] + tvEHelper xs

tvEHelper ([x]:[x1]:xs) | x=="e" && x1 == "tv" = 1+ tvEHelper ([x1]:xs)

| otherwise = tvEHelper ([x1]:xs)

----- for check

table1 = [[1,2,3,4,5],[2,3,4],[3,5,6,7],[7,4,3],[9,7,5]]

add []=0

add (x:xs) = addhelper x + add xs

addhelper (x:xs) = x + addhelper xs

addhelper [] = 0