Wreck Dr. Jaikal

ZPRAC-16-17-Lab8

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[20]
Wreck Dr. Jaikal

After bringing symmetry to the world, Shaktimaan came to know about Dr Jaikal's evil plans of destroying all cute things (even Dogs) from the world to make this world an unattractive place. He has created a powerful energy ray whose range can span the entire surface of Earth. The energy ray can be destroyed using a passcode. Please help Shaktimaan to find out the passcode and destroy the machine, hence, saving all cute things in the world (Dogs too :)).

The passcode is encrypted in a 2-D character matrix of size $n \times n$. Specifically, it consists of words formed from top-right corner of the matrix to the left diagonal (The diagonal from the top left corner to the bottom right corner of a square matrix). Each word starts from first row and continues in the direction of left diagonal (top-left to bottom-right). For example, consider the below 3×3 matrix

f a l
x a m
x x t

The passcode for above matrix is "I am fat" as "I", "am" and "fat" are the words formed in the direction of left diagonal from top-right corner to the left diagonal.

Given n and matrix as the input, print the passcode as output.

Note: Notice the space between each word but not after the last word. Also take care while taking input, it is a space separated matrix of characters. Make sure your input is correctly recorded in your matrix.

Example 1:
Input:
3
f a l
x a m
x x t
Output:
I am fat

Example 2:
Input:

4
k n d l
x n o o
x x o t
x x x w
Output:
I do not know

Hint for taking input: you can input each entry of the matrix as a string of size 2. Basically, input $n2$ strings one by one and store first character of the string at respective location in the matrix.