

Goal

A long time ago, in a galaxy far, far away ... You live a desert planet with two suns, and are the modest operator of a hydroponic farm. Your farm is represented by a square grid on which humidity evaporators are placed. Each evaporator of moisture irrigates and makes thus cultivable the 8 cells which are adjacent to it (one cannot cultivate anything on a cell containing a humidity evaporator)

The goal of this challenge is to determine the number of cultivable cells on your farm.

Data

Input

Row 1: an integer number N comprised between 5 and 35, representing the size of your farm (a $N \times N$ square grid).

Rows 2 to $N+1$: the rows of the grid represented by strings of N characters. The characters may be X (an evaporator), or a . (empty).

Output

An integer number representing the number of cells that can be irrigated.

You can download sample input and output data files to work locally by clicking on the link at the bottom of the French version of the question



Téléchargez des fichiers d'exemple ainsi qu'un modèle de code pour travailler localement.