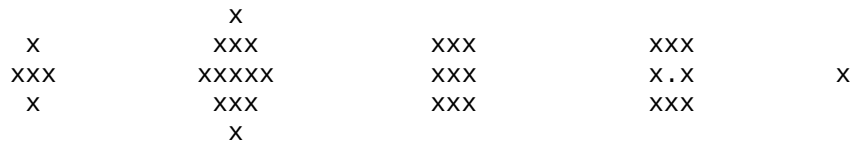
Problem E	Kites
Time Limit	4 Seconds

The season of flying kites is well ahead. So what? Let us make an inventory for kites. We are given a square shaped sheet of paper. But many parts of this are already porous. Your challenge here is to count the total number of ways to cut a kite of any size from this sheet. By the way, the kite itself can't be porous :-) AND.....it must be either square shaped or diamond shaped.



In the above figure first three are valid kites but not next two.

Input

Input contains an integer **n** (**n** 500), which is the size of the sheet. Then follows **n** lines each of which has **n** characters ('x' or '.'). Here the dotted parts resemble the porous parts of the sheet. Input is terminated by ***end of file***.

Output

Output is very simple. Only print an ***integer*** according to the problem statement for each test case in a new line.

Sample Input	Output for Sample Input
4 .xx. xxxx .xx. .x.. 3 xxx xxx xxx	4 6

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