

# Artificium

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## Pixel Polygons

Runtime Limit – 3s

### Problem Statement

You have an  $N \times N$  grid consisting of white and black square pixels. White pixels are represented by `.` and black pixels are represented by `#`. The pixels on the outer edges of the grid are all white.

The black pixels form a single connected shape without any holes (no white pixel is surrounded on all four sides with black pixels). How many sides does it have?

### Format

#### Input

**Line 1:** An integer  $N$  – the size of the grid

**Next  $N$  lines:** – the rows of the grid

#### Output

**Line 1:** The number of sides the black region has.

### Constraints

$$3 \leq N \leq 10$$

The pixels on the outer edge of the grid are all white.

The black pixels form a single connected region.

No white pixel is surrounded on all four sides with black pixels.

### Sample

## Input

4

. . . .

.##.

.##.

. . . .

## Output

4