Morphological Operations: Erosion

You are provided the following image B

```
0000000000
0111111100
0000111100
0000111100
0001111100
0000111100
0001100000
0000000000
0000000000
```

The structuring element S is given below, and its origin is the middle pixel.

```
111
111
111
```

What is the number of pixels marked 1 in the image obtained after B is eroded with the structuring element S? Enter the appropriate integer in the text box below.

Alternatively, you may submit a program which computes and displays the required integer.