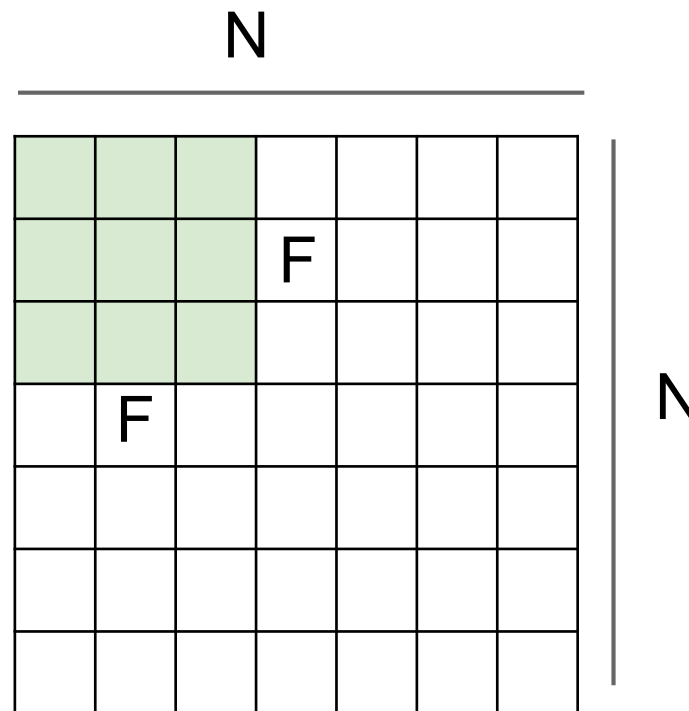


Consider a convolution layer with 16 filters. Each filter has a size of $11 \times 11 \times 3$, a stride of 2×2 . Given an input image of size $22 \times 22 \times 3$, if we don't allow a filter to fall outside of the input, what is the output size?

- $11 \times 11 \times 16$
- $6 \times 6 \times 16$
- $7 \times 7 \times 16$
- $5 \times 5 \times 16$

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Valid Output size:
 $(N - F) // \text{stride} + 1$

Consider a convolutional network with 4 operations in a sequential order:

Conv1 + max pooling + Conv2 + sigmoid + FC.

Which of the following statement is NOT true?

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- ReLU can be used to replace sigmoid
- A pooling operation is required after Conv2
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- True
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