Convolutional Neural Network

LATEST SUBMISSION GRADE

100%

1. Consider the following code: **1 / 1 point**

```
conv = nn.Conv2d(in_channels=2, out_channels=3, kernel_size=3)
```

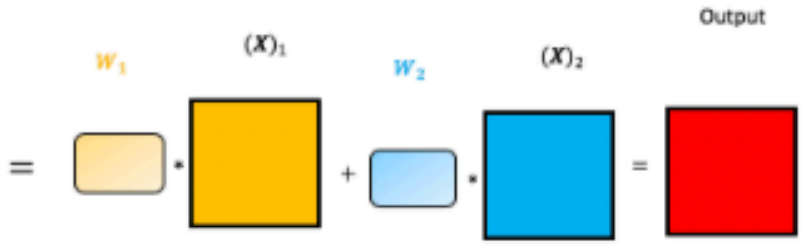
How many kernels are there in total?

6

✓ **Correct**
correct

2. Select the correct line of code to implement the following convolution operation : **1 / 1 point**

$$Z = \sum_{k=1}^{2} W_k * (X)_k + b_k$$

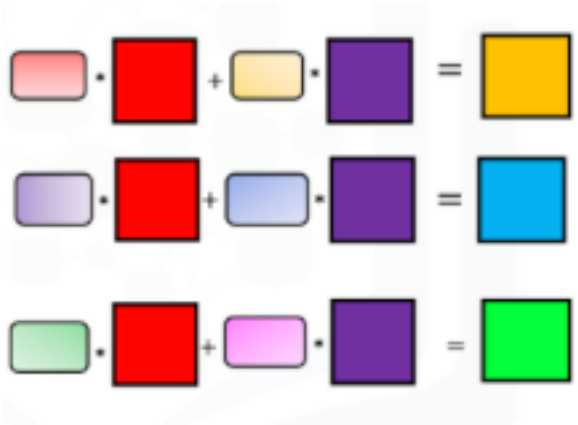


- ◉
```
conv = nn.Conv2d(in_channels=2, out_channels=1, kernel_size=
```
- ○
```
conv = nn.Conv2d(in_channels=1, out_channels=2, kernel_size=
```
- ○
```
conv = nn.Conv2d(in_channels=2, out_channels=2, kernel_size=
```

✓ **Correct**
correct

3. How many output channels does the following image have:

1 / 1 poi



3

✓ **Correct**
correct