Module 4.2

At heart convolution is just a fancy zip -> reduce, just like we have seen all semester. However, mastering the convolution is all about understanding and gaining intuition into shapes. This takes a little practice to get used to.

In this quiz we are going to practice computing one step of the 1d convolution with input channels.

```
input = torch.tensor([[1, 2, 1, 2, 3, 4],
                      [2, 1, 3, 2, 3, 2.]])

weights = torch.tensor([[3, 2, 1],
                        [1, 2, 3.]])
```

```
Here input.shape is `input_channels x width` and weights is `input_channels x kernel_width`. There is only 1 output channel.
```

1 1 point

Using our convention that output width is the same as input width, what is the size of the output tensor?

Type your answer...

2 1 point

What is the value of `output[2, 0]`? (compute that part of the 1D convolution.)

Type your answer...