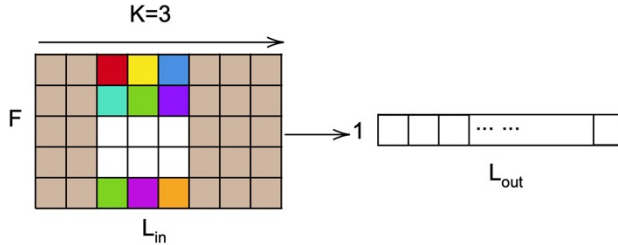1D convlutional with kernel size K =3, with 2D input of shape (F, L_{in})

The convolutional layer has width of K and length of F slides over the 2D input
producing 1D output corresponding to the spatial position.