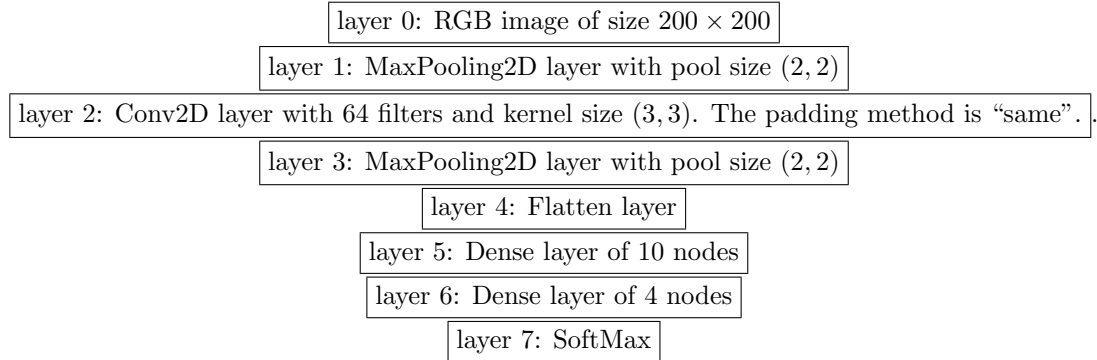


Homework-9

Question 1

Consider the following deep learning model, with layers stacked in a sequential order:



1

Nonlinear activation (ReLU) should be applied immediately after some of these layers. Mark below the layers that should be followed by ReLU.

Answer

0 / 1 / 2 / 3 / 4 / 5 / 6 / 7

2

Compute the number of trainable weights that are associated with each layer. (These are the weights with values that are determined during the training.) For simplicity assume no bias connections. Show your calculations.

Answer

layer 0: ____ weights.

layer 1: ____ weights.

layer 2: ____ weights.

layer 3: ____ weights.

layer 4: ____ weights.

layer 5: ____ weights.

layer 6: ____ weights.

layer 7: ____ weights.