$$L_{1} = (3 \times 3 \times 3 + 1)^{*} 100 = 2800$$

$$L_{2} = (3 \times 3 \times 100 + 1)^{*} 200 = 180200$$

$$L_{3} = (3 \times 3 \times 200 + 1)^{*} 400 = 720,400$$

$$L_{3} = (3 \times 3 \times 200 + 1)^{*} 400 = 720,400$$

$$Total parameters = 903,400$$

Parameters memory = 903,400*4 = 3.6MB

Memory required for batch of 50 images:

- Memory required for 50 images = 50 * 300 * 200 * 3 * 4 = 36MB

 $TOTAL\ Memory = 525 + 3.6 + 36 = 565MB$

Memory requied per Layer