For the chosen class from the testing set, please report the L2-loss (MSE) between original images and the reconstruction outputs.

Assume batch size = 1

$$MSE\ Loss\ for\ a\ single\ batch\ = \frac{1}{n}\sum_{i=1}^{n}(\widehat{y_i}\ - y_i)^2$$

$$MSE\ Loss\ for\ a\ multiple\ batches\ = \frac{1}{m}\sum_{j=1}^{m}\frac{1}{n}\sum_{i=1}^{n}\left(\widehat{y_{j,i}}\ - y_{j,i}\right)^2$$

Hint:
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where m is the batch size, n is the image dimension and $\widehat{y_{j,i}}$ is the i-th element of the predicted value for the m-th batch and $y_{j,i}$ is the i-th element of the actual target value for the m-th batch.