# HW assignment #2-1

Problem 1. Using the code “EE488_Week4_reconstruction-HW2.ipynb (2025).ipynb”, answer to the following questions

A. For 6 possible combinations of LATENT_DIM = {4, 64, 128} and NORMAL_NUM ={[1], [1,2]}, plot and compare the histogram.

B. Discuss why the error distributions of above 6 cases are different.

# HW assignment #2-2

Problem 2.

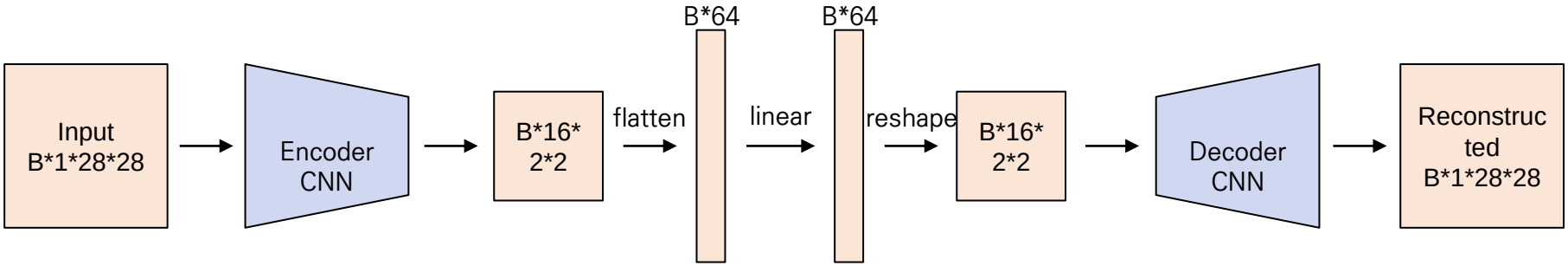
A. Design the convolutional autoencoder described in the following pages and reflect to the code “EE488_Week4_reconstruction-HW2.ipynb (2025).ipynb”

B. For 6 possible combinations of  LATENT_DIM = {4, 64, 128} and NORMAL_NUM ={[1], [1,2]}, plot and compare the histogram.

C. Discuss why the error distributions of above 6 cases are different from those obtained from the fully-connected autoencoder of Problem 1.

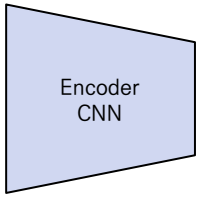
# Practice 1 : Reconstruction

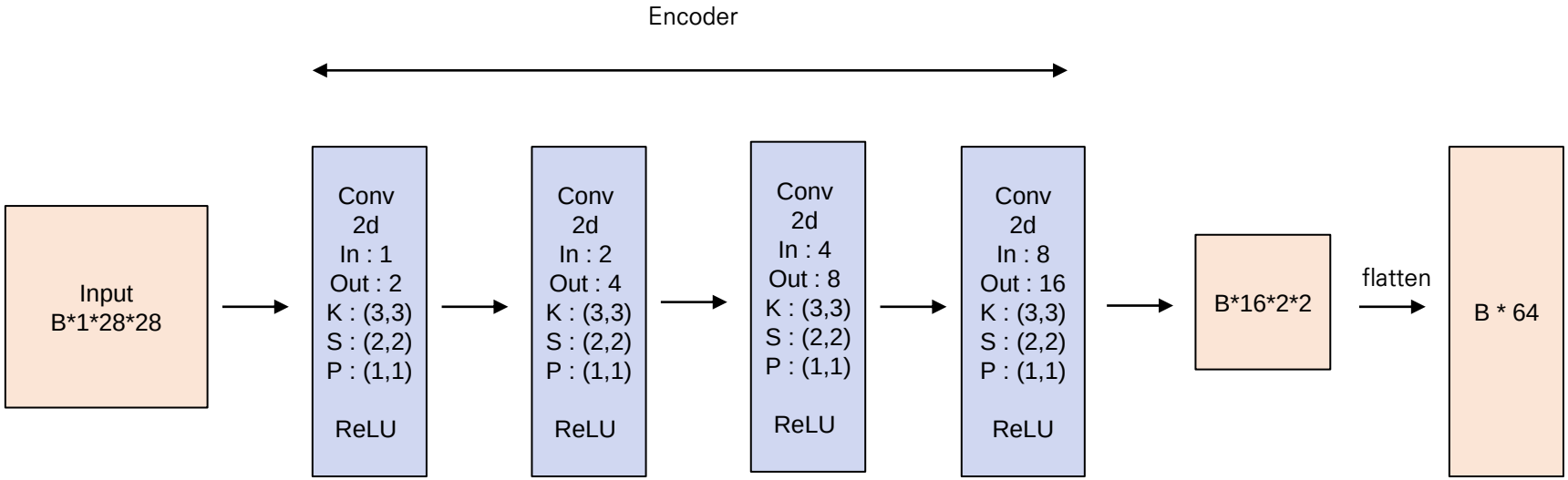
- Conv autoencoder (Assignment)



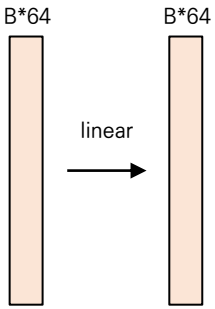
# Practice 1 : Reconstruction

- Conv autoencoder : Encoder (Assignment)

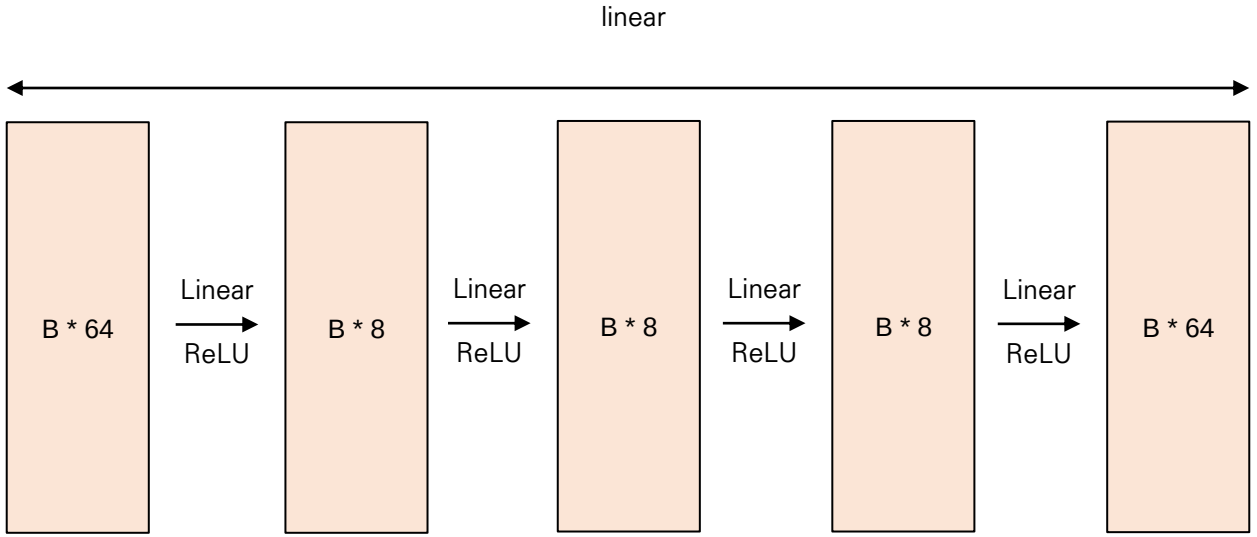


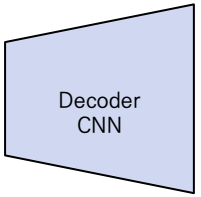
# Practice 1 : Reconstruction




- Conv autoencoder : Linear (Assignment)



# Practice 1 : Reconstruction




- Conv autoencoder : Decoder (Assignment)