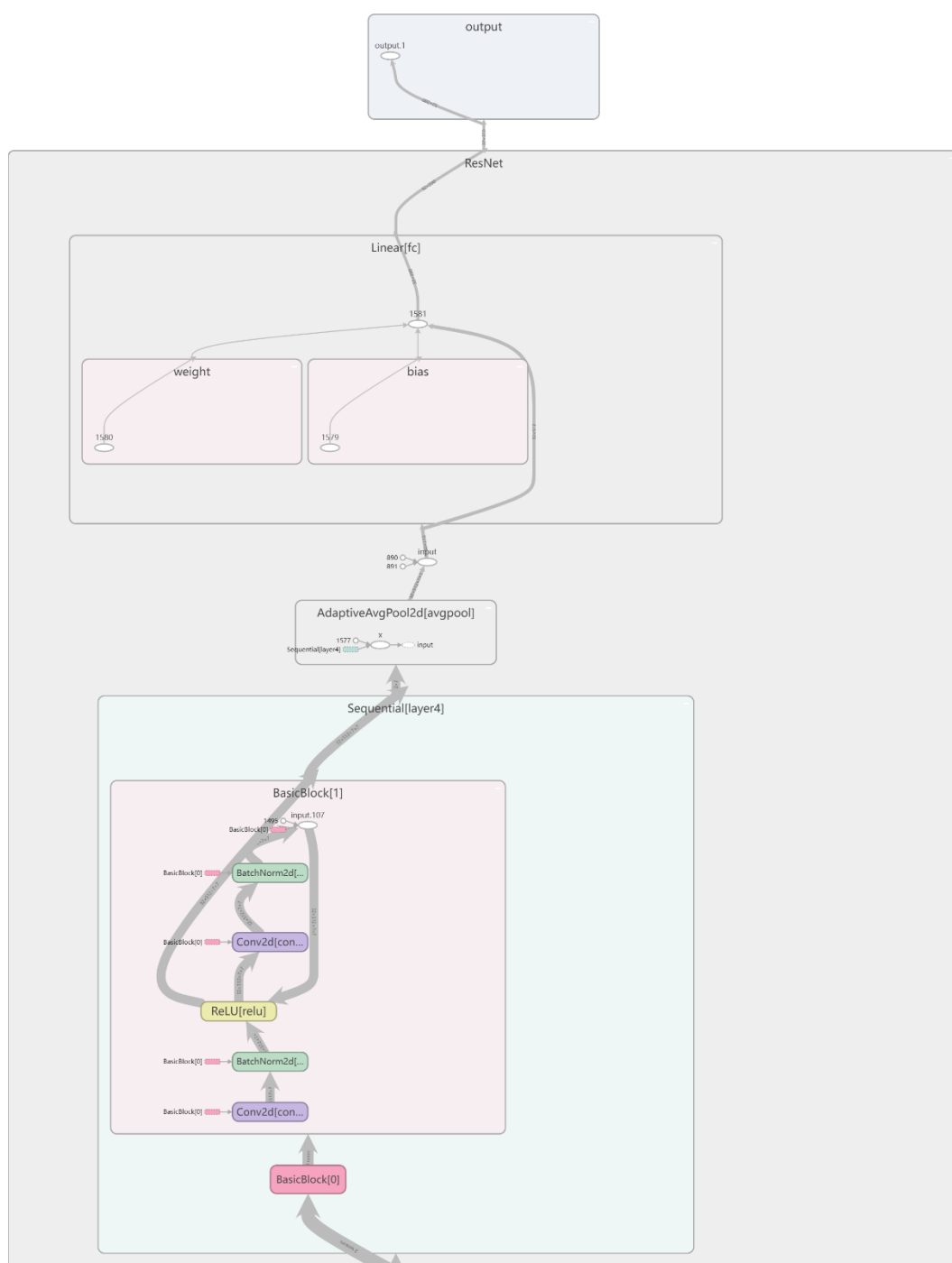
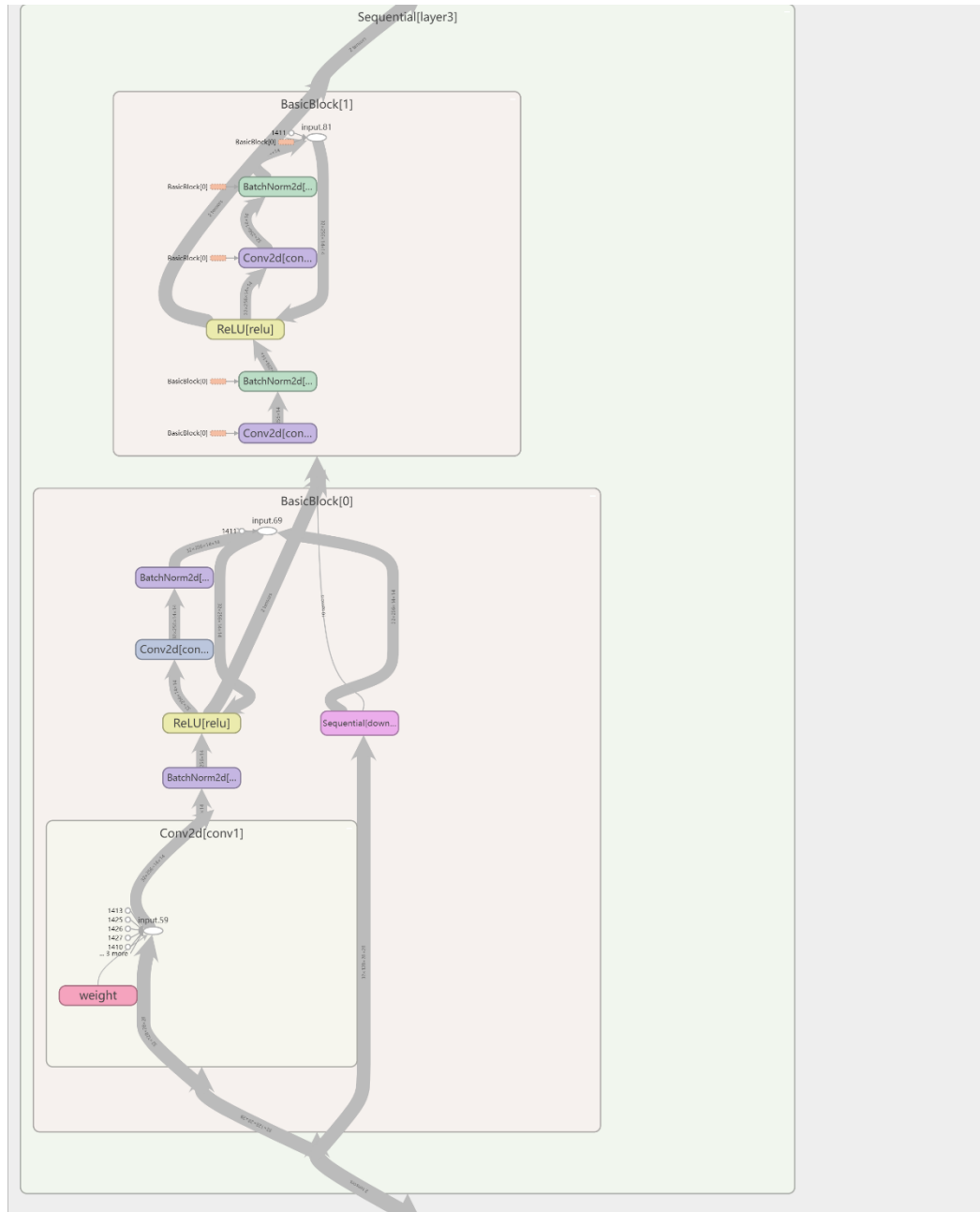


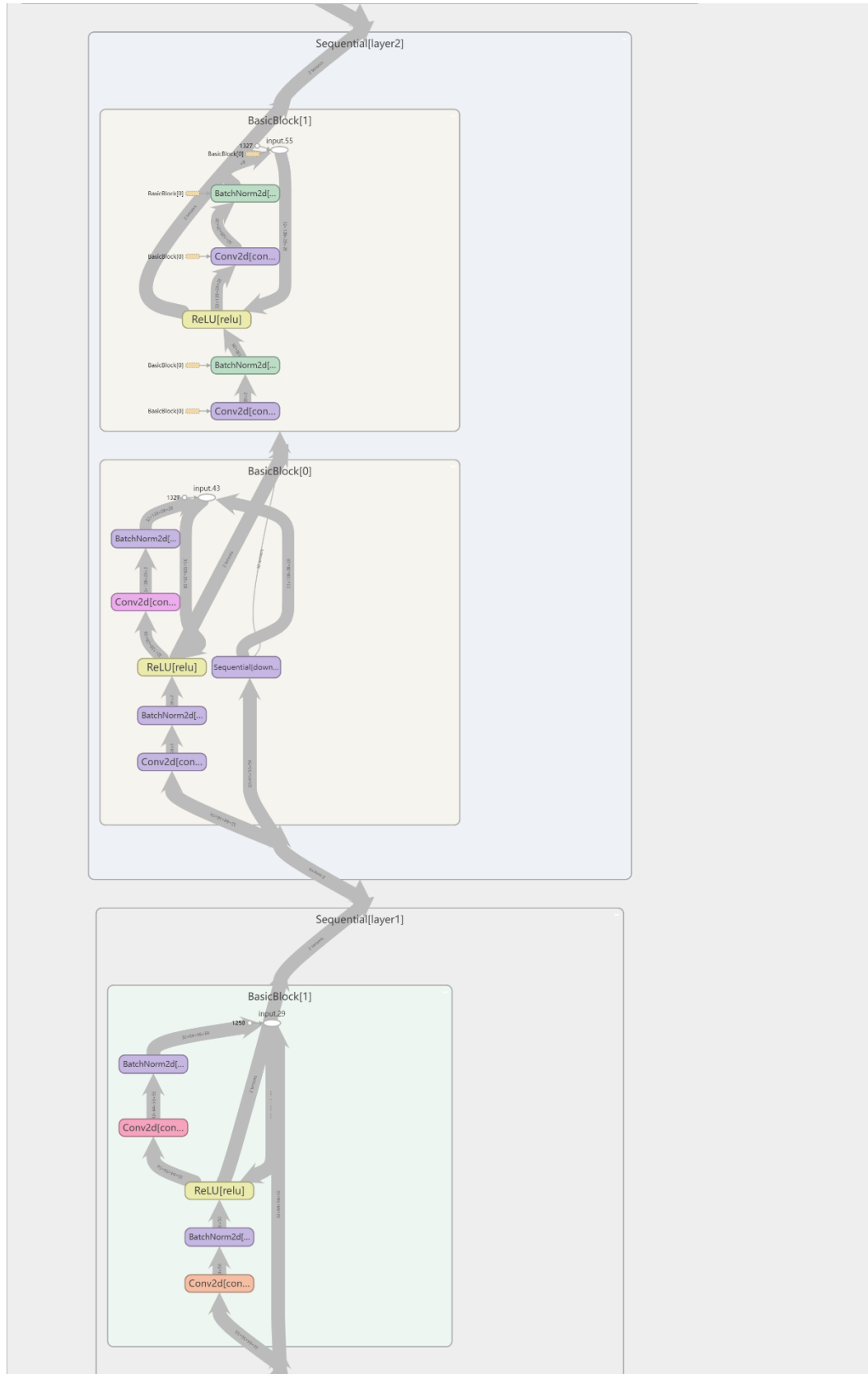
潘宇镭第二次大作业报告

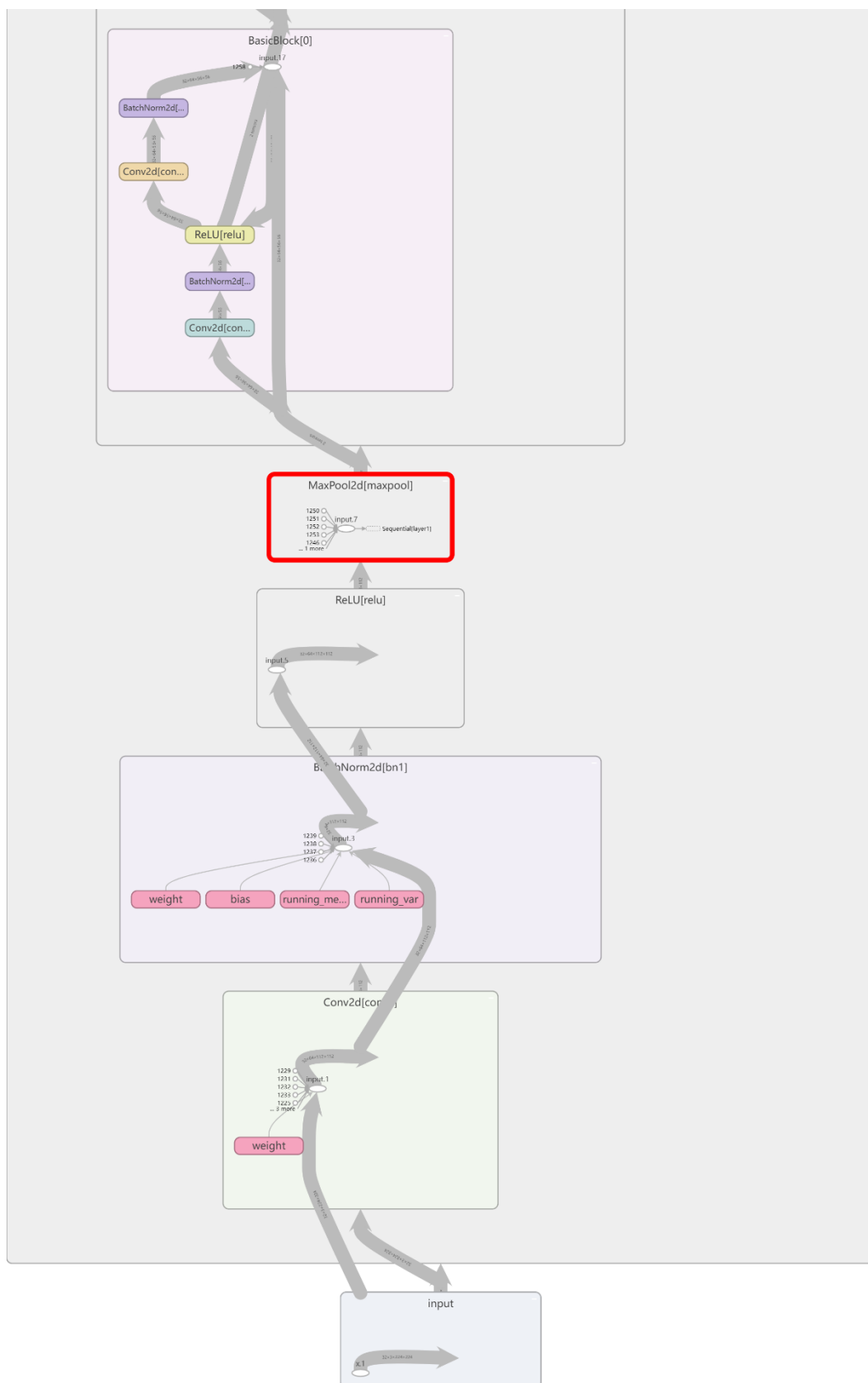
1. 各层的名称及输出的大小：

```
print('打印模型结构')
dataiter = iter(train_loader)
images, labels = dataiter.next()
images = images.to('cuda')
writer.add_graph(model, images)
print('打印完成')
```









2. 修改 output 维数

增加参数 `num_classes = 200`

```
if args.pretrained:
    print("> using pre-trained model ' {}'.format(args.arch))
    model = models.__dict__[args.arch](pretrained=True)
else:
    print("> creating model ' {}'.format(args.arch))
    model = models.__dict__[args.arch](num_classes = 200)
```

3. 修改数据集

在代码中增加 `torch.utils.tensorboard` 的代码, 以能在 TensorBoard 中观察训练集 Loss、训练集精度、验证集 Loss、验证集精度的变化。

思路:

1. 从 `val_annotations.txt` 中获取编号和种类
2. 从 `images` 文件夹中读取文件, 对应 `val_annotations.txt` 创建文件夹并移入
3. 删除多余文件

```
import io
import pandas as pd
import glob
import os
from shutil import move
from os.path import join
from os import listdir, rmdir
target_folder = './tiny-imagenet-200/val/'
val_dict = {}

with open(target_folder + 'val_annotations.txt', 'r') as f:
    for line in f.readlines():
        split_line = line.split('\t')
        val_dict[split_line[0]] = split_line[1]
    paths = glob.glob(target_folder + 'images/*')
    for path in paths:
        file = path.split('/')[-1].split('\\')[1]
        folder = val_dict[file]
        if not os.path.exists(target_folder + str(folder)):
            os.mkdir(target_folder + str(folder))
        for path in paths:
            file = path.split('/')[-1].split('\\')[1]
            folder = val_dict[file]
            dest = target_folder + str(folder) + '/' + str(file)
            move(path, dest)
    os.remove('./tiny-imagenet-200/val/val_annotations.txt')
    rmdir('./tiny-imagenet-200/val/images')
    print('over')
```