PS1 partA5:

1) time taken by greedy= 0.01534271240234375

number of trips by greedy= 6

time taken by brute= 0.9059994220733643

number of trips by brute =5

the greedy ran faster because it gives only one output which is forming trips of descending order of cows which don’t exceed the limit while brute makes all the combinations which takes time and then choose the ones with trips which satisfy the weight then minimizes the combinations to give the combinations with the least number of trips

2) greedy algorithm doesn’t always return the optimal solution because it doesn’t operative exhaustively on all data It gets a local optimal solution with the intent of finding the global optimum

3) brute force algorithm gives optimal solution with poor efficiency because it tries all possibilities.