Chieh Lee

You Zhang

Problem Set 2

May 25

Part I

1.

In order to use the as few as possible boxes to ship N item to same location, assuming all individual weights are all less than W, we first pick the heavies item to fill the box. So W – W1 where 1 indicate the first heavy item (and so on).

Then check

If (W – Wi)> Wi+1,

True, fill Wi+1 into the same box, i = i+1

False, start a new box.