PQ<Integer> gold = new PriorityQueue<>(Collections.reverseOrder());

Java’s PQ is minheap, we need to reverse it.

map = TreeMap<Integer **(Energy cost),** PQ<Integer (**Gold)**>>

gold = 0;

key = null;

For each input:

if (cmd == add):

If map.contains(energy) {

goldQ = map.get(energy).offer(gold)

goldQ.offer(gold);

map.put(energy,goldQ);

} else {

PQ<Integer> goldQ = new PriorityQueue<>(Collections.reverseOrder());

goldQ.offer(gold);

map.put(energy, goldQ)

}

else:

gold = 0;

while (energyGiven !=0 || key != null) {

key = map.floorKey(energyGiven)

if (key != null) {

gold += map.get(key).poll();

energyGiven = energyGiven – key;

map.remove(key);

}

}

print(gold);