**Daycare Notes**

1. Sort rooms by new size (won’t work)
2. Group by difference
3. Ratio of renovated room size/current capacity
4. Change in capacity / current capacity
5. Delta c

Rooms => {r1…rn}

If we Renovate r1,

R2 => rn (t = 3, k = 2)

Greedy Choice: minimize T with maximizing k

Order to choose rooms

* Increasing size
* Neutral size
* Decreasing size

1. Rooms that grow in capacity
   1. Ideas: highest delta C
      1. Then smallest initial room)
   2. Lowest initial room (works best)
   3. Delta C / C0 => maximize (breaks)
2. Neutral Rooms
   1. Does not matter
3. Rooms that decrease in capacity
   1. Ideas: lowest initial room size (contradiction)
      1. Lowest change in capacity (already ruled out)
      2. Largest initial room
      3. Largest final room size (best way)

Find how to count T