

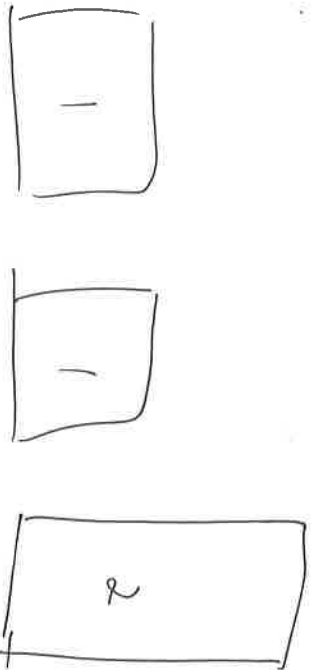
$$\min \leq \text{average} \leq \max$$

Let  $T$  be the set of tasks already assigned when task  $j$  was considered, then the average execution

$$\text{time was } \frac{1}{m} \sum_{k \in T} t_k \leq \overset{\text{Prop 2}}{\leq} OPT$$

By greedy, we know

$$\sum_{k \in S_i \setminus \{j\}} t_k \leq \frac{1}{m} \sum_{k \in T} t_k \leq OPT$$



OPT: 2.

Greedy: 3