

$\text{makespan} = \text{maximum load on any machine}$

load balancing problem: assign jobs to machines such that the  $\text{makespan}$  is minimized

input: set  $\{t_1, t_2, \dots, t_n\}$  of processing times

integer  $m = \text{number of machines}$

greedy algorithm: assign each job to machine with smallest load so far

running time:  $O(n \log m)$  when using a priority queue to determine the machine with minimum load