Lecture 31

CSE 331 Apr 16, 2021

Scheduling to min idle cycles

n jobs, ith job takes w_i cycles

You have W cycles on the cloud



What is the maximum number of cycles you can schedule?

Subset sum problem

Input: n integers $w_1, w_2, ..., w_n$

bound W

Output: subset S of [n] such that

(1) sum of w_i for all i in S is at most W

(2) w(S) is maximized

Today's agenda

Dynamic Program for Subset Sum problem