

Subset-Sum

Note Title

9/24/2019

Recall: Subset-Sum

SS: Given a set S of n positive integers, and t ,
is there a subset $S' \subseteq S$ s.t.

$$\sum_{x \in S'} x = t$$

e.g.

$$S = \{1, 7, 12, 13, 20\}, t = 39$$

$$\text{yes, } S' = \{7, 12, 20\}$$

1] 3SAT α_p SS

Given 3SAT, f , on x_1, x_2, \dots, x_n variables
in C_1, C_2, \dots, C_m clauses.

See CLRS §34

2] 3-SAT α_p 3-Coloring

see CLRS

Quiz 1
