

Today Synthesis and review.

Next class Synthesis and review.

Reminders Newsgroup. Final exam.

1. List the members of your group below. Underline your name.

2. Trace the execution of the textbook's EXACT-SUBSET-SUM algorithm (p. 1129), by enumerating the L_i lists it computes (after the pruning step), on the following instance:

$$\begin{aligned} S &= \{100, 103, 107, 109, 120, 135, 142, 163, 184, 203, 271\} \\ t &= 200 \end{aligned}$$

3. Repeat Question 2 using the textbook's APPROX-SUBSET-SUM FPTAS with $\epsilon = 0.66$.

$$S = \{100, 103, 107, 109, 120, 135, 142, 163, 184, 203, 271\}$$

$$t = 200$$

4. (informal homework; newsgroup) If the solution computed in Question 3 equals the one in Question 2 then determine the smallest change to the set S that would result in a different solution; else determine the smallest change that would result in the same solution.