

Today: Introduction; rod-cutting. § 15.1.

Next class: fundamentals of alg. analysis; §§ 2.*.

Reminders: Read material *before and after* class. Use the class newsgroup.

1. List the members of your group below. Underline your name.
2. For the following mapping of rod lengths to prices, trace the execution of a recursive cut-rod algorithm for a rod of length 12.

length	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
price	3	4	9	11	14	17	19	24	28	29	32	36	37	41	44

3. Repeat Question 2 for the memoized cut-rod algorithm (top-down).

4. Repeat Question 2 for the bottom-up cut-rod algorithm.

5. (informal homework) Implement all three versions of the cut-rod algorithm and conduct a brief experimental study of their performance.