

CS375 Small Assignment 9

Due Oct 27th 10PM ET

This small assignment will focus again on the rod cutting problem. We'll modify it again by a little: suppose we are only allowed to make at most k cuts for some integer $k \geq 0$. Develop a $\Theta(nk)$ algorithm to determine the best way to cut a length n rod using **at most** k cuts.

Trace through your algorithm on the input $p = [0, 8, 18, 26, 26, 36, 41, 49, 55, 63, 68, 77, 79, 84]$ and $k = 3$.