6.851 Advanced Data Structures (Spring'12)

Prof. Erik Demaine

Problem 9 Due: Thursday, Apr. 26

Be sure to read the instructions on the assignments section of the class web page. Remember to keep your solutions to one page!

Substring matching. Given two strings S_1 and S_2 , and a positive integer k, find the number of substrings of S_1 of length at least k that occur in S_2 . Develop and analyze an algorithm to solve this problem in $O(|S_1| + |S_2| + \operatorname{sort}(\Sigma))$ time.

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