

Deadline 2015/12/31 23:59

檔案路徑: [git資料夾]/mini_hw/14.pdf

Please show how to reduce RMQ to RMSQ in $O(n)$ time.

Give an example to show it.

Range Maximum Query Problem(RMQ)

Given a sequence of numbers, return the maximum value within these numbers.

Ex.

Input: 6, 8, 12, 46, 7, 18, 5

Output: 46

Range Maximum-Sum Segment Query Problem(RMSQ)

Given a sequence of numbers, return start index and end index of the maximum-sum segment within these numbers.

Ex.

Input: -10, 4, -2, 5, -5, 4, -3, 6, -11, 8

Output: 1, 7 (The maximum-sum segment is {4, -2, 5, -5, 4, -3, 6})