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GSS5 SPOJ EXPLANATION

0 [GSS5](#) In this sum I can't understand why can't we take the minimum of x_1, y_1, x_2, y_2 as the lower limit and maximum of those as the higher limit and then find the bestsum of (lower, higher) Can anyone explain this?

[SPOJ](#)

converted to question 24 Nov '14, 12:00

asked 24 Nov '14, 11:59

 1★ [abeyaar](#)
 [334]•2•21•40
 accept rate: 30%

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1 If you take the minimum and maximum of the given range to perform a query, it is then possible that the maximum sum of a segment you calculate is not in the range. Let's consider an example.

$x_1 = 1, x_2 = 3, y_1 = 3, y_2 = 5$;

According to your technique, the query performed on $i = 1$ to $j = 5$ should yield the correct answer. But as we can see that in a query from 1 to 5 the result can be such that the maximum sum is obtained in the range [4, 5]. But since $x_1 \leq i \leq y_1$ and $x_2 \leq j \leq y_2$, we can see that 4 is not in the range $[x_1, y_1] = [1, 3]$. Hence you will get an incorrect result.

Here is the hint to the solution. Consider two cases, in which (x_1, y_1) and (x_2, y_2) are overlapping and the other where they are disjoint. Can you come up with a way to combine answers on different ranges to give the optimal result?

Hint: Solve GSS1.

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edited 05 Dec '14, 18:45

answered 05 Dec '14, 18:41

 5★ [vastolorde95](#)
 [28]•3
 accept rate: 11%

yeah i got it thanks :) Can you look into this?? <http://discuss.codechef.com/questions/57254/treap-vs-avl-trees-treap-vs-red-black-trees>

1★ [abeyaar](#) (05 Dec '14, 21:11)

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