

Accumulator Apex

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Let us break each list of integers into sublists greedily: 1) we go over elements maintaining their sum and the minimum sum seen so far; 2) when the sum becomes positive we split the list and store the sum and the minimum observed sum; and 3) we continue with the list from the step 1 until it becomes empty. Then, we populate the priority queue with the first lists of each list sorted by the minimum observed sum. Now, we should take the sublist with the biggest minimum sum — it reduces the chances to make x non-negative while increasing it, at the end. Thus, in each step, we take the sublist with the biggest minimum and apply it to x . Then, we withdraw this sublist from the corresponding list i and put the next sublist from the list i into the priority queue.