Count-min sketch: extension to negative counters

Check the analysis seen in class, and discuss how to allow F[i] to change by arbitrary values read in the stream. Namely, the stream is a sequence of pairs of elements, where the first element indicates the item i whose counter is to be changed, and the second element is the amount v of that change (v can vary in each pair). In this way, the operation on the counter becomes F[i] = F[i] + v, where the increment and decrement can be now seen as (i,1) and (i,-1).