3) Lemma 2

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• An entry (e, f, Δ) gets deleted if $f \le 1$ when reaching a bucket boundary

· We know that bourrent keeps track of the number of new buckets that were started

- of is incremented everytime when e is processed after creation of $(e_i f_i \Delta)$
- · Also, f can only be decremented by 1 if a bucket ends
- Suppose that (e,f,D) gets deleted:
 =) Since f might have been fe at some point of the past, at least fe-1 decrements by 1 must have happened to ensure f≤1
- The number of decrements is at most bourrent -7

 => bourrent >> fe v