Turnstile Streaming

- Initialize $x \leftarrow 0 \in \mathbb{R}^n$
- On update (i, Δ) :
 - Set $x_i \leftarrow x_i + \Delta$
- Answer queries about x using small space
 - max $|x_i|$
 - $\sum |x_i|^p$ (F_p moments)

Updates: (i_1, Δ_1) (i_2, Δ_2) ... (i_m, Δ_m)

28

Our Results