

Demandminizing PRCs

- We want to construct a sketching matrix S such that for all x

- S_x can be used to compute what we want to know about x

- *S* can be stored efficiently

- S_{*i} can be generated on-demand

- If each S_{*j} is independently sampled from a distribution

- $\Omega(n)$ space to store S and be able to retrieve S_{*j} on demand

Derandomizing using PRGs

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 - Sx can be used to compute what we want to know about x
 - S can be stored efficiently
 - S_{*i} can be generated **on-demand**
- If each S_{*i} is independently sampled from a distribution
 - $\Omega(n)$ space to store S and be able to retrieve S_{*i} on demand

Derandomizing with PRG