



# Small Space Algorithm

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Makes a single pass over the range and string from left to right

- Computes  $Sx$  at the end

• Using PRG that folds single-pass algorithms:

- $S_x$  computed using PRG also has the same properties

• Need to store only the "seed" to the PRG



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- Makes a single pass over the random string from **left** to **right**
- Computes  $Sx$  at the end
- Using PRG that fools single-pass algorithms:
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# Nisan's PRG