



Andoni's Algorithm

$$\bullet \text{Max stability} \Rightarrow \max(\mathbf{e}_1^{-1/p} |x_1|, \dots, \mathbf{e}_n^{-1/p} |x_n|) \equiv \mathbf{e}^{-1/p} F_p(x)^{1/p}$$

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$y$  $y_1$  $=$  $y_m$  $S$ 


$E$

$e_1^{-1/p}$			
	$\ddots$		
		$\ddots$	
			$e_n^{-1/p}$

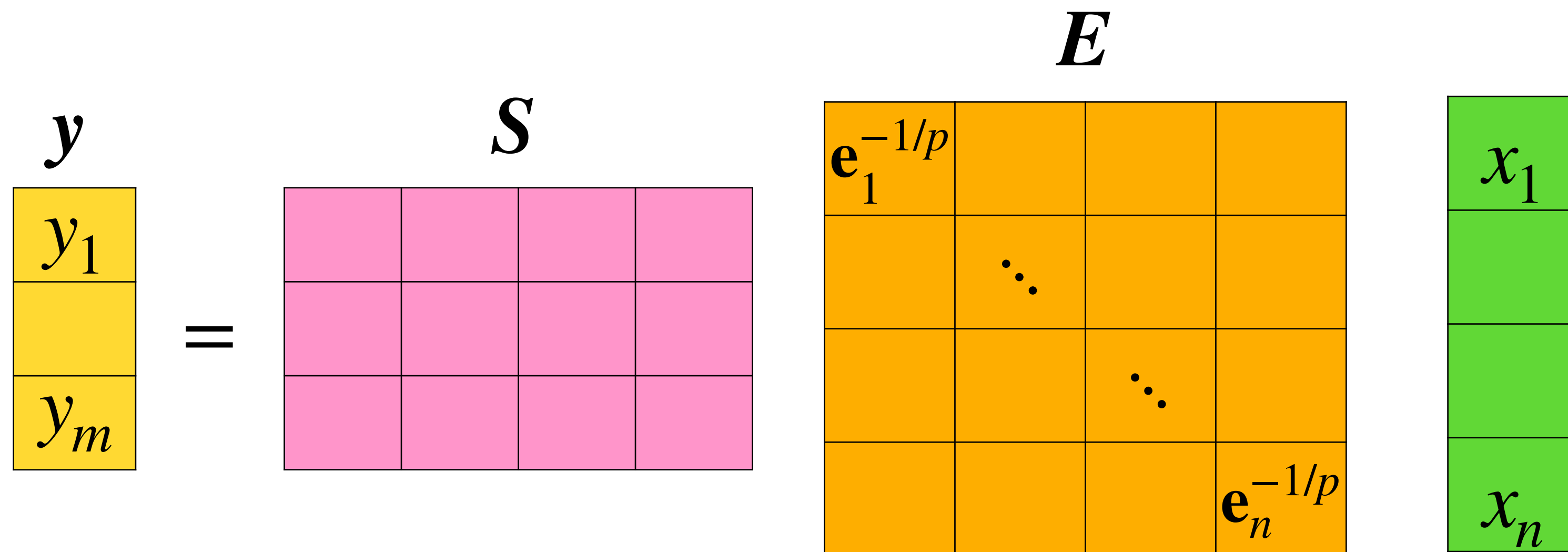
$x_1$
$x_n$

$$\|Ex\|_\infty \approx F_p(x)^{1/p}$$

If  $m = \Theta(n^{1-2/p} \log n)$ , then  $\|SEx\|_\infty \approx F_p(x)^{1/p}$

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If  $m = \Theta(n^{1-2/p} \log n)$ , then  $\|SEx\|_{\infty} \approx F_p(x)^{1/p}$



# Implementing in a Stream