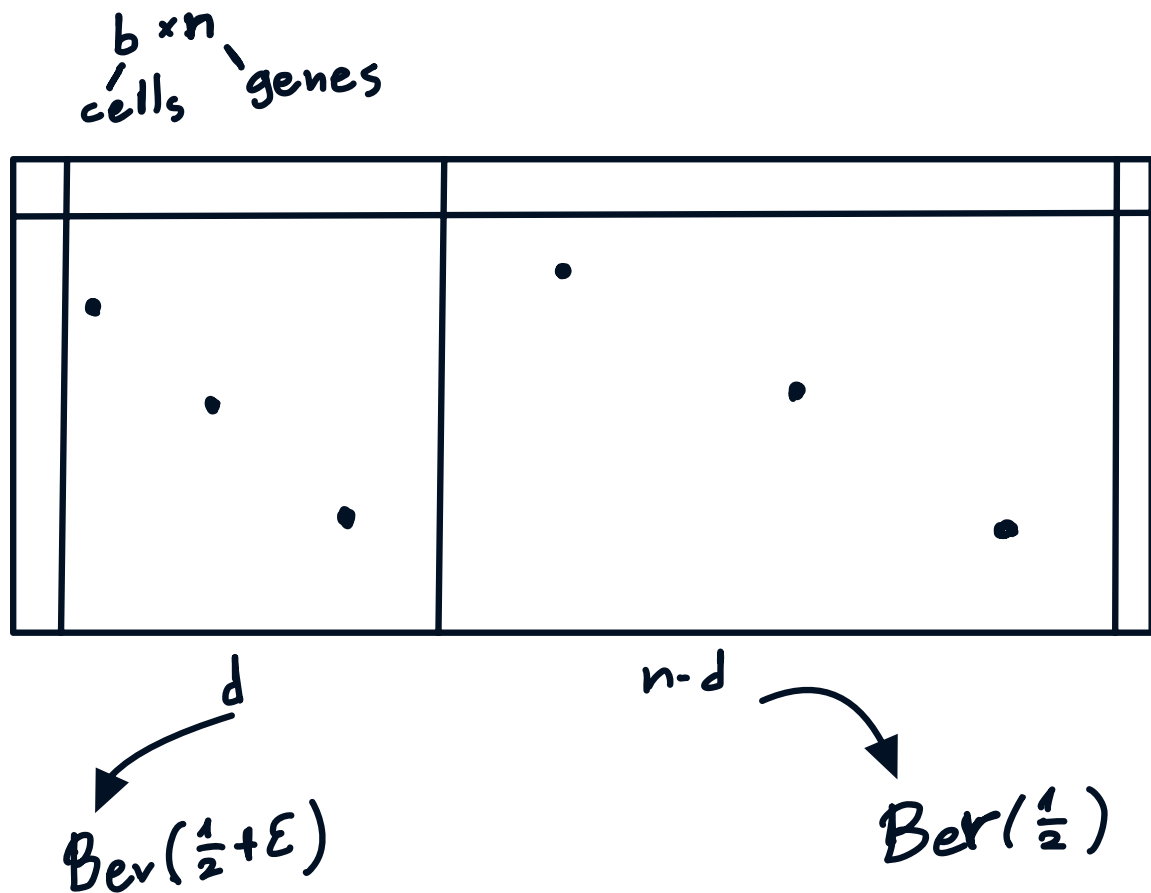


# Synthetic Data For Gene-Perm

# Synthetic Data

① Block help but columns don't matter



- Switch one of the  $\overset{\text{left}}{d}$  columns with one of the right  $n-d$  columns
- the larger is the block size,  $b$ , the easier is the task
- However, since columns are independent, revealing more columns doesn't help

② columns help and <sup>only</sup> few blocks are necessary

$b \times n$   
cells genes

	•	•	
	•		
			•

$d$

$n-d$

for each  
row, choose  
 $d/2 \pm 1$  w.o.  
replacement

$\text{Ber}(\frac{1}{2})$