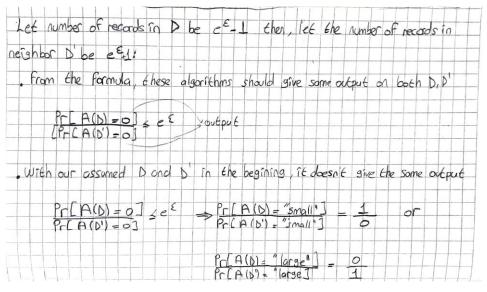
Part 1 Privacy Proofs

Question A

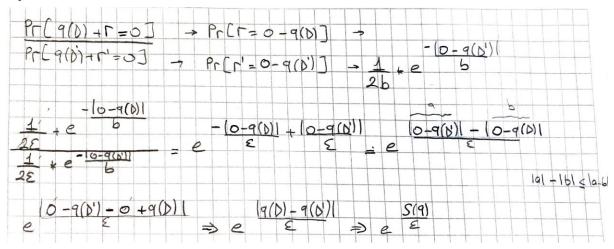
Pr[A ₁ (b) = 0]	Pr(A2(D)=5) Pr(A2(D)=5)	Pr(An(b)=0)
	A a Borithm's sequential connection composition kind a like	nposition satisfy (\$ Et - DP 1941) paralle composition. Differice
composition satisfy	max (E)-DP. But this m	point datasets. Their sequential naximum epsilon lower than formula their sequential composition
also salisfics (\$\frac{2}{1}\$	(A2 (b) = 0]	$\leq \max(\mathcal{E}_{\widehat{\Gamma}}) - \mathcal{P} \leq (\sum_{\widehat{\Gamma} = \bot} \mathcal{E}_{\widehat{\Gamma}}) - \mathcal{P}$

Question B



A satisfy ϵ -DP if the number of records in dataset D and number of records in Dataset D' should be both lower than e^{ϵ} or greater than e^{ϵ}

Question C



A satisfy ϵ -DP if the sensitivity [S(q)] is equals to ϵ^2 . In other cases, it does not satisfy the ϵ -DP