(3) c) Note: Most of this is taken from Luca Defeo's paper, I tried to understand it, but if you considere this plagiarism, I'm Kuthit $P(g) = \exp_g(\Pi_{G_i})$ for any ge6. Since the order of or does not matter, its we can see above, we only consider how many times each clement of D is in P. The protocol therefore resembles our well-known Diffie-Hellman KE To achieve the same level of security, we need pa(g) and PB(g) to be uniformly distributed. Since the graph from the previous points is an expander and as Adefined in (a), Dopenerates (Z/pZ), we have that condition satisfied. In order to achieve better uniformity, walks must have leath ~ log p. Toka To have a big enough key space, we must have $|D| \approx \frac{\log p}{\log \log p}$, since, as mentioned earlier, a secret route is defined by the number of times each element of D is in p(g)