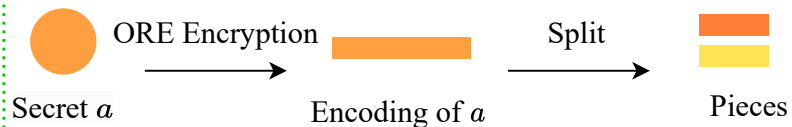


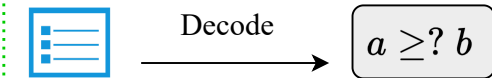
Participant 1

Step 2 Secret Encoding



Send K_A and pieces

Step 5 Result Decoding



Obtain results with secret key

Send $Enc(K_B, \text{results})$

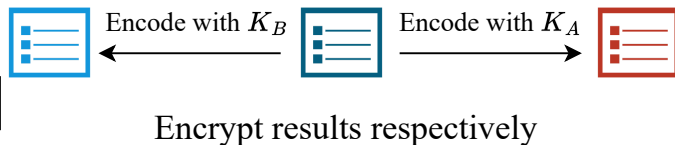


Third-party Platform

Step 3 Secure Comparison

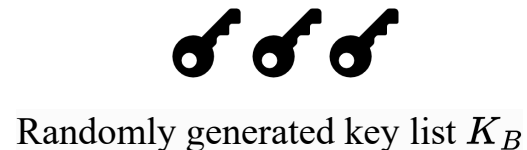
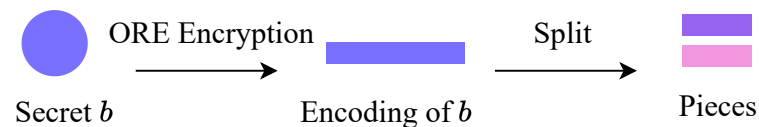


Step 4 Results Encoding



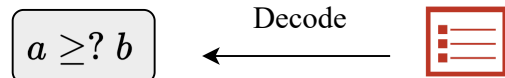
Participant 2

Step 2 Secret Encoding



Send K_B and pieces

Step 5 Result Decoding



Obtain results with secret key

Send $Enc(K_A, \text{results})$