n-bits sequence Input Iinjio lo lolluo ---when I [i] = 1. Put it in the bloom filter Then & i, , iz , i3 , i4 , .... ix3 0 < x < n , heli)/ L-bits sequence Then Append the witness to bitsmap. for (0 -> n) if hitsmap contain i Then check I [i], it it is 0, then i is a talse possessee, Append 0 to be map, else append [ to bitimap. True positive false positive pft Smap filter > ( Witness -> Encoder

000 i, iz is n-pits segence. for lo >n) if bloom filter contains ! Then check it on witness if witness is I Then O[i]=/ else O[i]=0 01110011/101111010/ là Witness 021, ]= |. Then O [iz] = 0. -> false posttive.