- 8.2 (a) Monumum period obtainable from the generator 13 4
 - (b) a most be 5 or 11
 - (c) Seed must be old.
- 8.4 Let us stort with an instrabled of 1. The tirst generator yields the sequence.

 1, 6, 10, 8, 9, 2, 12, 7, 3, 5, 4, 11, 1, ...

The second generator yields the following sequence:

it is less rendern then the 1st sequence

8.6. Use a key of length 255 byter. The first 2 byter are zero;

Post that, we have K[2] = 255

K[3] = 254

...

K[255] = 2

- 8.7(a) He can simply store i, j and s which requires 8+8+(256×8) = 2064 614
 - (b) The no. of states is [25(] x 256] = 21700

8.8 (a) By taking the first 80 bits of ville, we obtain the initialization vector, v. 8.8 (a) By taking the first 80 bits of ville, we obtain the initialization vector, v. 8.8 (a) By taking the first 80 bits of ville, we obtain the initialization vector, v. 8.8 (a) By taking the first 80 bits of ville, we obtain the initialization vector, v. 8.8 (a) By taking the first 80 bits of ville, we obtain the initialization vector, v. 8.8 (a) By taking the first 80 bits of ville, we obtain the initialization vector, v. 8.8 (a) By taking the first 80 bits of ville, we obtain the initialization vector, v. 8.8 (a) By taking the first 80 bits of ville, we obtain the initialization vector, v. 8.8 (a) By taking the first 80 bits of ville, we obtain the initialization vector, v. 8.8 (a) By taking the first 80 bits of ville, we obtain the initialization vector, v. 8.8 (a) By taking the first 80 bits of ville, we obtain the initialization vector, v. 8.8 (a) By taking the first 80 bits of ville, we obtain the initialization vector, v. 8.8 (a) By taking the first 80 bits of ville, we obtain the initialization vector, v. 8.8 (a) By taking the first 80 bits of ville, we obtain the initialization vector, v. 8.8 (a) By taking the first 80 bits of ville, we obtain the initialization vector, v. 8.8 (a) By taking the first 80 bits of ville, we obtain the initialization vector, v. 8.8 (a) By taking the first 80 bits of ville, we obtain the initialization vector, v. 8.8 (a) By taking the first 80 bits of ville, we obtain the initialization vector, v. 8.8 (a) By taking the ville 80 bits of ville 80 bits of

- (b) It the adversory observes that vi= vj for distinct i,j then helphe knows that the some key was used to enough both mi and mj.
- (c) stree, the key is timed, the key stream varies with the choice of the con-bit vy that is selected randomly. Thus, after approx 232 messages are sent, we expect the same v' and here the same key stream to be used more than once.
- (1) Key 'k' should be charged sometime before 240 massages are sent.