

	A	B	C	D
1	1	0	1	1
2	0	1	0	1
3	1	0	1	0
4	1	1	0	1
5	1	1	1	0
6	1	1	1	1
7	0	1	1	1
8	0	0	1	1
9	0	0	0	1
10	1	0	0	0
11	0	1	0	0
12	0	0	1	0
13		0	0	1
14			0	0
15				0

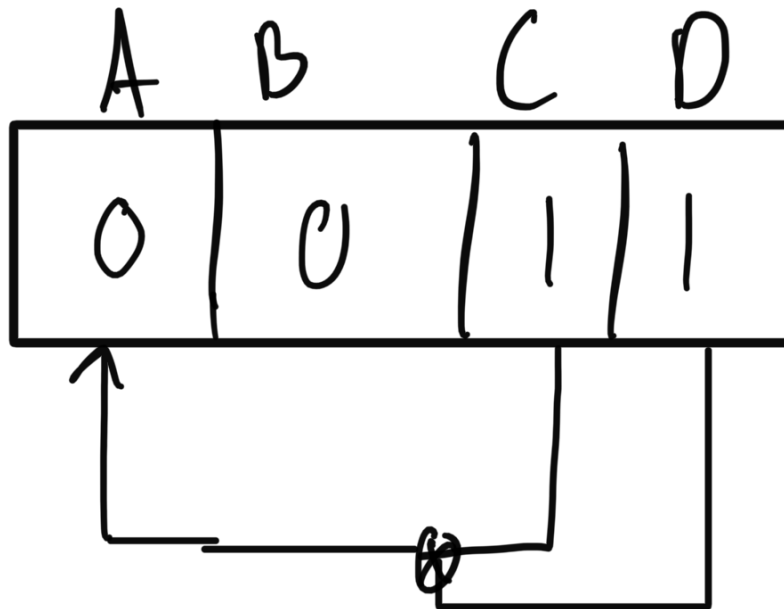
5. Use the spreadsheet from step 4 to find the LFSR configuration and show your work for each step.

Working our way down the spreadsheet, we come to find rather quickly that the C and D bits influence the next A bit, as seen below:

1	1	0	1	1
2	0	1	0	1
3	1	0	1	0
4	1	1	0	1
5	1	1	1	0
6	1	1	1	1
7	0	1	1	1
8	0	0	1	1
9	0	0	0	1
10	1	0	0	0
11	0	1	0	0
12	0	0	1	0
13		0	0	1
14			0	0
15				0

6. Draw a diagram of the LFSR configuration you identified in step 5

With the previous findings, we come to the following LFSR configuration:



7. Translate the plaintext into ASCII

I was unable to get the Cycle function down.

8. Upload your code to canvas as "Lab5_part2.py". A TA will run your program and make sure it can decrypt the ciphertext. Double check that it runs without any issues before uploading it.

Attached.