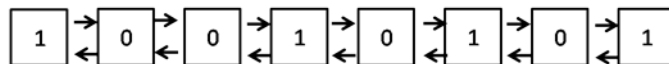
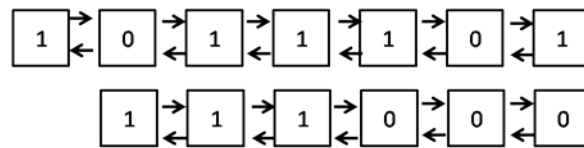


<u>Group</u>	<u>1</u>
<u>Name:</u>	
<u>Id:</u>	
<u>Pc-place:</u>	

1. Inside the D partition, create a folder by your student id and place your project solution in it.
2. Define the type "node" for a circular doubly linked list of characters.
3. Write a function "push" that takes a character and pushes it into a circular doubly linked list of characters.
4. Write a function "load" that reads a text file, and constructs two circular linked lists of characters as shown in the figure below. Remember, it is easy to push to tail in a circular list.

```
1011101
111000
```



We suppose that the characters are either '0' or '1', thus the lists can be considered as binary numbers representation.

5. Write a function "add" that, given two binary representation lists, creates and returns a new list representing the binary addition of the two lists. The new list should be made with its own memory — the original lists should not be changed. Trick: begin your work from tail to head.
6. Write a function "print" that displays a doubly circular linked list.
7. Try your program on the example in the figure above; create and fill the text file by yourself.
8. Save your solution in a folder named by your student id inside the D partition.

The End