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import java.util.*;

public class App{
    public static void main(String args[]){
        Scanner sc = new Scanner(System.in);

        System.out.println("Enter number of nodes");
        int n = sc.nextInt();

        System.out.println("Ring formed as below: ");

        for(int i = 0; i < n; i++){
            System.out.print(i + " ");
        }
        System.out.println("0");

        int choice = 0;
        do{
            System.out.println("Enter sender: ");
            int sender = sc.nextInt();
            System.out.println("Enter receiver: ");
            int receiver = sc.nextInt();
            System.out.println("Enter data");
            String data = sc.next();

            int token = 0;

            for(int i = token; i<sender; i++){
                System.out.print(i + "->");
            }
            System.out.println(sender);
```

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System.out.println("Sender: " + sender + " sending data " + data);
```

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for(int i = sender; i!=receiver; i=(i+1)%n){
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    System.out.println("Data " + data + " forwarded by " + i);
```

```
}
```

```
System.out.println("Receiver " + receiver + " received the data " + data);
```

```
token = sender;
```

```
System.out.println("Do you want to send data again? If yes enter 1, If no enter 0 ");
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choice = sc.nextInt();
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}while(choice == 1);
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}
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}
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