Lamport's Algorithm for Mutual Exclusion

```
#include<iostream>
     using namespace std;
     int main ()
       printf("\n Kabeer Ahmed ---> 5E-19028 \n");
       int i, d, p, a, c = 0, aa[10], k,j, n;
       char ch='y';
             of ("enter no of processes ");
        flush(stdin);
       scanf ("%d", &n);
       i = 0;
           printf ("enter the process no which want to execute critical section ");
           fflush(stdin);
                f ("%d", &a);
           aa[i] = a;
           i++;
            c=c + 1;
                   ("some other process want to execute cs? then press y.");
                  (stdin);
            cin>>ch;
        while (ch == 'y');
        for (k = 0; k < c; k++)
          j=aa[k];
           printf ("Incritical section is executing for process %d in queue.....",3);
printf ("Incritical section is finished for process %d", j);
           printf ("\nrelease msg has sent by process%d", j);
        getch ();
36 }
```

```
Kabeer Ahmed ---> SE-19028
enter no of processes 5
enter the process no which want to execute critical section 3
some other process want to execute cs? then press y.y
enter the process want to execute cs? then press y.y
enter the process want to execute cs? then press y.y
enter the process no which want to execute critical section 4
some other process want to execute critical section 2
some other process want to execute critical section 2
some other process want to execute cs? then press y.5
Incritical section is executing for process 3 in queue.....Incritical section is finished for process 3
release msg has sent by process3Incritical section is executing for process 3 in queue.....Incritical section is finished for process 4
release msg has sent by process4Incritical section is executing for process 3 in queue.....Incritical section is finished for process 2
release msg has sent by process4Incritical section is executing for process 3 in queue.....Incritical section is finished for process 2
release msg has sent by process2

...Program finished with exit code 0
Press ENTER to exit console.
```

Diagram made in Lamport's Algorithm

