do

{

waiting [i] = TRUE;

key = TRUE; // key is local to Pi

while (waiting[i] && key)

swap (&lock, &key);

waiting [i] = FALSE;

// Execute in Critical Section

j = (i+1) %n; //select next process

while (j! =i &&! waiting[i])

j = (j+1) %n;

if (j==i)

lock = FALSE;

else

waiting [j] = FALSE;

// Execute in remainder section

} while (TRUE);