```
Int count A = 0;

Int count B = 0;

Semaphore MutexA, MutexB, mutex;

MutexA.value=1;

MutexB.value=1;

mutex.value=1;


cobegin

process A_direction_cross_bridge_person

{

    P(MutexA);

    If(count A==0)

        P(mutex);

        Count A = count A+1;

        V(MutexA);

        P(MutexA);

            Count A = count A-1;

        If (count A==0)

            V(mutex);

        V(MutexA);

}

process B_direction_cross_bridge_person
```

```
{
    P(MutexB);

    If(count B==0)

        P(mutex);

        Count B = count B+1;

        V(MutexB);

        P(MutexB);

            Count B = count B-1;

        If (count B==0)

            V(mutex);

        V(MtexA);
}
coend
```