

```
struct {  
    char name[10];  
    int number;  
} A[100];  
for (int i = 0; i < 100; i++){  
    A[i].number = i; A[i].name = null;  
}  
semaphore mutex, seat;  
mutex = 1; seat = 100;  
cobegin
```

```
Process readeri(char readername[]){  
    P(seat);  
    P(mutex);  
    for (int i = 0; i < 100; i++){  
        if (A[i].name == null){  
            A[i].name = readername;  
            {读者得到座位i};  
            break;  
        }  
    }  
    V(mutex);  
    {进入阅览室, 座位号i, 坐下读书};  
    P(mutex);  
    A[i].name = null;  
    V(mutex);  
    V(seat);  
    {离开阅览室};  
}
```

```
coend
```