

```
int buf[9];
int count, getptr, putptr;
count = 0; getptr = 0; putptr = 0;
semaphore s1, s2, put, get;
s1 = 1; s2 = 2; put = 0; get = 3;
cobegin
```

```
process producer_i(){
    while(1){
        P(put);
        {生产3个整数};
        P(s1);
        buf[putptr] = 整数1;
        putptr = (putptr + 1) % 9;
        buf[putptr] = 整数2;
        putptr = (putptr + 1) % 9;
        buf[putptr] = 整数2;
        putptr = (putptr + 1) % 9;
        V(s1);
        V(get);
        V(get);
        V(get);
    }
}
```

```
process consumer_j(){
    while(1){
        P(get);
        P(s2);
        int y = buf[getptr];
        count++;
        getptr = (getptr + 1) % 9;
        if (count == 3){
            count = 0;
            V(put);
        }
        V(s2);
        {消费整数y};
    }
}
```

```
coend
```