

Task_1

```
IEngine-Out-20115111.zaw --stderr=Microsoft-MIEngine-Error-151w
0 produced a by Thread 1
0 consumed a by Thread 2
1 produced b by Thread 1
1 consumed b by Thread 2
2 produced c by Thread 1
2 consumed c by Thread 2
3 produced d by Thread 1
3 consumed d by Thread 2
4 produced e by Thread 1
4 consumed e by Thread 2
5 produced f by Thread 1
5 consumed f by Thread 2
6 produced a by Thread 1
6 consumed a by Thread 2
7 produced b by Thread 1
7 consumed b by Thread 2
8 produced c by Thread 1
8 consumed c by Thread 2
9 produced d by Thread 1
9 consumed d by Thread 2
PS C:\Users\User\Desktop\20301450> []
```

Task_2

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
IEngine-Out-3eagcdfp.hf0' '--stderr=Microsoft-MIEngine-Error-xxp0xehw.vyx' '--pid=Micro
Farmer 1: Insert crops R at 0
Farmer1: RWNNN
Farmer 2: Insert crops W at 1
Farmer2: RFarmer 3: Insert crops P at 2
WPNN
Shop owner 3: Remove crops R from 0
Farmer3: NWPSN
ShopOwner3: NWPSN
Farmer 5: Insert crops S at 3
Farmer5: NwPSN
Shop owner 1: Remove crops W from 1
ShopOwner1: NNPSN
Shop owner 2: Remove crops P from 2
ShopOwner2: NNNSM
Farmer 4: Insert crops M at 4
Farmer4: NNNSM
Shop owner 5: Remove crops S from 3
ShopOwner5: NNNNM
Shop owner 4: Remove crops M from 4
ShopOwner4: RNNNFarmer 0: Insert crops R at 0
Farmer0: RNNNN
Shop owner 0: Remove crops R from 0
ShopOwner0: NNNNN
```

```
Farmer 0: Insert crops W at 1
Farmer0: NWPNM
Farmer 3: Insert crops P at 2
Farmer3: NWPSN
Farmer 2: Insert crops S at 3
Farmer2: NWPSM
Farmer 4: Insert crops M at 4
Farmer4: RWPSM
Farmer 1: Insert crops R at 0
Shop owner 5: Remove crops W from 1
Farmer1: RWPSM
ShopOwner5: RWPSM
Farmer 5: Insert crops W at 1
Farmer5: RWPSM
Shop owner 3: Remove crops P from 2
ShopOwner3: RWNSM
Shop owner 0: Remove crops S from 3
ShopOwner0: RWNNM
Shop owner 4: Remove crops M from 4
ShopOwner4: RWNNN
Shop owner 2: Remove crops R from 0
```

```
Shop owner 2: Remove crops R from 0
ShopOwner2: NWNNN
Shop owner 1: Remove crops W from 1
ShopOwner1: NNNNN
Farmer 1: Insert crops P at 2
Farmer1: NNPS
Farmer 2: Insert crops S at 3
N
Farmer 3: Insert crops M at 4
Farmer3: RNPSM
Farmer2: RNPSM
Farmer 5: Insert crops R at 0
Farmer5: RWPSM
Farmer 4: Insert crops W at 1
Farmer4: RWPSM
Shop owner 1: Remove crops P from 2
ShopOwner1: RWNSM
Shop owner 4: Remove crops S from 3
ShopOwner4: RWNNM
Shop owner 3: Remove crops M from 4
ShopOwner3: RWNNN
Shop owner 0: Remove crops R from 0
ShopOwner0: NWNNN
Shop owner 2: Remove crops W from 1
ShopOwner2: NNPNN
Farmer 0: Insert crops P at 2
Farmer0: NNPNN
Shop owner 5: Remove crops P from 2
ShopOwner5: NNNNN
Farmer 0: Insert crops S at 3
Farmer0: NNNSM
Farmer 4: Insert crops M at 4
Farmer4: RNNSM
Farmer 5: Insert crops R at 0
Farmer5: RWNSM
Farmer 1: Insert crops W at 1
Farmer1: RWPSM
Farmer 2: Insert crops P at 2
Farmer2: RWPSM
Shop owner 5: Remove crops S from 3
ShopOwner5: RWPNM
Shop owner 2: Remove crops M from 4
ShopOwner2: RWPN
Shop owner 4: Remove crops R from 0
ShopOwner4: NWPNM
Shop owner 0: Remove crops W from 1
ShopOwner0: NNPNN
Shop owner 1: Remove crops P from 2
```

```
ShopOwner0: NNNNN  
Shop owner 1: Remove crops P from 2  
N  
Farmer 3: Insert crops S at 3  
Farmer3: NNNSN  
ShopOwner1: NNNSN  
Shop owner 3: Remove crops S from 3  
ShopOwner3: NNNNN  
Farmer 3: Insert crops M at 4  
Farmer3: RNNNM  
Farmer 2: Insert crops R at 0  
Farmer2: RWNNM  
Farmer 5: Insert crops W at 1  
Farmer5: RWPNM  
Farmer 1: Insert crops P at 2  
Farmer1: RWPSM  
Farmer 0: Insert crops S at 3  
Farmer0: RWPSM  
Shop owner 4: Remove crops M from 4  
ShopOwner4: RWShop owner 1: Remove crops R from 0  
ShopOwner1: NWPSNPSN  
  
Shop owner 2: Remove crops W from 1  
ShopOwner2: NNPSN  
Shop owner 3: Remove crops P from 2  
ShopOwner3: NNNSN  
Shop owner 5: Remove crops S from 3  
ShopOwner2: NNPSN  
Shop owner 3: Remove crops P from 2  
ShopOwner3: NNNSN  
ShopOwner2: NNPSN  
Shop owner 3: Remove crops P from 2  
ShopOwner2: NNPSN  
ShopOwner2: NNPSN  
Shop owner 3: Remove crops P from 2  
ShopOwner3: NNNSN  
Shop owner 5: Remove crops S from 3  
ShopOwner5: NNNNM  
Farmer 4: Insert crops M at 4  
Farmer4: RNNNM  
Shop owner 0: Remove crops M from 4  
ShopOwner0: NNNNN  
PS C:\Users\User\Desktop\20301450> []
```