

```
List_structure -> {  
    Next,  
    Value  
}
```

```
Int * Bus1_tail -> null
```

```
Int * Bus3_tail -> null
```

```
Int * BusS_tail -> null
```

```
Int * Bus1_head -> null
```

```
Int * Bus3_head -> null
```

```
Int * BusS_head -> null
```

```
Int * Main_head -> null
```

```
Int * Main_tail -> null
```

```
Function AddPassenger(I):
```

```
    If Main_head = null:
```

```
        List_structure A -> new List_structure
```

```
        A.Value -> I
```

```
        A.Next -> null
```

```
        Main_head -> &A
```

```
        Main_tail -> &A
```

```
    Else:
```

```
        List_structure A -> * Main_tail
```

```
        List_structure B -> new List_structure
```

```
        B.Value -> "person"
```

```
        A.Next -> &B
```

```
        B.Next -> null
```

```
        Main_tail -> &B
```

```
    If I = 1:
```

```
        If Bus1_head = null:
```

```
            List_structure A -> new List_structure
```

A.Value -> Main\_tail

A.Next -> null

Bus1\_head -> &A

Bus1\_tail -> &A

Else:

List\_structure B -> new List\_structure

B.Value -> Main\_tail

B.Next -> Bus1\_tail

Bus1\_tail -> &B

Else If l = 3:

If Bus3\_head = null:

List\_structure A -> new List\_structure

A.Value -> Main\_tail

A.Next -> null

Bus3\_head -> &A

Bus3\_tail -> &A

Else:

List\_structure B -> new List\_structure

B.Value -> Main\_tail

B.Next -> Bus3\_tail

Bus3\_tail -> &B

Else

If BusC\_head = null:

List\_structure A -> new List\_structure

A.Value -> Main\_tail

A.Next -> null

BusC\_head -> &A

BusC\_tail -> &A

Else:

List\_structure B -> new List\_structure

B.Value -> Main\_tail

B.Next -> BusC\_tail

BusC\_tail -> &B

Function BoardBus(l):

    If l = 1:

        Int Next

        While True:

            List\_structure \* A -> Bus1\_tail

            List\_int B -> A.Value

            List\_int \*C -> B.Next

            \*B -> \*C

            Next -> A.Next

            ClearMemory(Bus1\_head)

            Bus1\_head -> Next

            If Next = null:

                break

    Else if l = 3:

        Int Next

        While True:

            List\_structure \* A -> Bus3\_tail

            List\_int B -> A.Value

            List\_int \*C -> B.Next

            \*B -> \*C

            Next -> A.Next

            ClearMemory(Bus3\_head)

            Bus3\_head -> Next

            If Next = null:

                brea

    Else:

        Int Next

        While True:

            List\_structure \* A -> BusC\_tail

List\_int B -> A.Value

List\_int \*C -> B.Next

\*B -> \*C

Next -> A.Next

ClearMemory(BusC\_head)

BusC\_head -> Next

If Next = null:

Break

Function GetQueue():

While True:

print(\*Main\_head.value)

Main\_head -> Main\_head.Next

## **Collaborator**

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