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(l):

If Main\_head = null:

List\_structure A -> new List\_structure

A.Value -> l

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 l = 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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