Proj5

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Chapter 1

Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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2 Class Index

Chapter 2

Class Documentation

2.1 arrayList Class Reference

Public Member Functions

- void setArrival (int)
- int getArrival ()
- void setDuration (int)
- int getDuration ()
- void setWaitTime (int)
- int getWaitTime ()
- void setDeparture (int)
- int getDeparture ()

Friends

• class queue

2.1.1 Member Function Documentation

```
2.1.1.1 getArrival()
```

```
int arrayList::getArrival ( )
```

Will get the arrival time

Returns

arrival

```
2.1.1.2 getDeparture()
int arrayList::getDeparture ( )
Will get the departure time
Returns
     departure
2.1.1.3 getDuration()
int arrayList::getDuration ( )
Will get the duration time
Returns
     duration
2.1.1.4 getWaitTime()
int arrayList::getWaitTime ( )
Will get the wait time
Returns
     wait
2.1.1.5 setArrival()
void arrayList::setArrival (
              int a)
Sets the arrival time
Parameters
 а
```

Precondition

Will take the variable and set arrival to it

Postcondition

Will set arrival to the variable

2.1.1.6 setDeparture()

Sets the departure time

Parameters



Precondition

Will take the variable and set arrival to it

Postcondition

Will set departure to the variable

2.1.1.7 setDuration()

```
void arrayList::setDuration ( \quad \text{int } d \ )
```

Sets the duration time

Parameters



Precondition

Will take the variable and set arrival to it

Postcondition

Will set duration to the variable

2.1.1.8 setWaitTime()

Sets the departure time

Parameters



Precondition

Will take the variable and set arrival to it

Postcondition

Will set wait to the variable

The documentation for this class was generated from the following files:

- arrayQueue.h
- arrayQueue.cpp

2.2 linkedList Class Reference

Public Member Functions

- void setArrival (int)
- int getArrival ()
- void setDuration (int)
- int getDuration ()
- void setWaitTime (int)
- int getWaitTime ()
- void setDeparture (int)
- int getDeparture ()

2.2.1 Member Function Documentation

```
2.2.1.1 getArrival()
```

```
int linkedList::getArrival ( )
```

Will get the arrival time

Returns

arrival

```
2.2.1.2 getDeparture()
int linkedList::getDeparture ( )
Will get the departure time
Returns
     departure
2.2.1.3 getDuration()
int linkedList::getDuration ( )
Will get the duration time
Returns
     duration
2.2.1.4 getWaitTime()
int linkedList::getWaitTime ( )
Will get the wait time
Returns
     wait
2.2.1.5 setArrival()
void linkedList::setArrival (
              int a)
Sets the arrival time
Parameters
```

а

Precondition

Will take the variable and set arrival to it

Postcondition

Will set arrival to the variable

2.2.1.6 setDeparture()

```
void linkedList::setDeparture ( int \ d \ )
```

Sets the departure time

Parameters



Precondition

Will take the variable and set arrival to it

Postcondition

Will set departure to the variable

2.2.1.7 setDuration()

Sets the duration time

Parameters



Precondition

Will take the variable and set arrival to it

Postcondition

Will set duration to the variable

2.2.1.8 setWaitTime()

Sets the departure time

Parameters



Precondition

Will take the variable and set arrival to it

Postcondition

Will set wait to the variable

The documentation for this class was generated from the following files:

- · linkedList.h
- · linkedList.cpp

2.3 queue Class Reference

Public Member Functions

• queue ()

Default C-tor.

• void setLine (int, int, int)

Will give the values of the arrival times and duration times.

• void processArrival (int, int)

Will procees the arrival time for that index.

• void processDeparture (int index)

Will process the departure time and all the other data.

· void setAvail (bool)

Will set the teller to true or false.

- bool getAvail ()
- bool isEmpty (int)

Will check if it is empty.

- void setArrival (int)
- int getArrival (int)
- void reset ()
- int getDuration (int)
- int getDepart (int i)
- int getWait (int)

Friends

class arrayList

2.3.1 Constructor & Destructor Documentation

```
2.3.1.1 queue()
```

queue::queue ()

Default C-tor.

Precondition

When a class object is called it gives it default values

Postcondition

Will give all the values 0

2.3.2 Member Function Documentation

2.3.2.1 isEmpty()

```
bool queue::isEmpty (
          int index )
```

Will check if it is empty.

Parameters

index

Returns

bool

Precondition

Will check that index position

Postcondition

If the index goes over the set amount it is at the end

2.3.2.2 processArrival()

Will procees the arrival time for that index.

Parameters

index	
time	

Precondition

Will take in current time to set the wait time

Postcondition

Will set the wait time for that index, and set the tller to false

2.3.2.3 processDeparture()

Will proccess the departure time and all the other data.

Parameters

index

Precondition

Will take in the index to get and set data for that index

Postcondition

Will calcualte the departure time for the customer

2.3.2.4 reset()

```
void queue::reset ( )
```

Will reset the values for the next question

Postcondition

Will set all the values back to zero and all bool values to their postions

2.3.2.5 setAvail()

```
void queue::setAvail (
          bool a )
```

Will set the teller to true or false.

Parameters



Precondition

Takes in a bool value to set

Postcondition

sets the availibility to a

2.3.2.6 setLine()

Will give the values of the arrival times and duration times.

Parameters

index	
arrival	
duration	

Precondition

Will take in the index, arrival and duration time to give to the class

Postcondition

Will set the arrival and duration time for that index in the class

The documentation for this class was generated from the following files:

- · queue.h
- · queue.cpp

2.4 queueLinked Class Reference

Public Member Functions

• queueLinked ()

Default C-tor.

• void setLine (int, int, int)

Will give the values of the arrival times and duration times.

void processArrival (int, int)

Will procees the arrival time for that index.

void processDeparture (int index)

Will proccess the departure time and all the other data.

· void setAvail (bool)

Will set the teller to true or false.

• bool getAvail ()

Will check if it is empty.

- bool isEmpty (int)
- · void setArrival (int)
- int getArrival (int)
- void remove ()
- int getDepart (int i)
- int getWait (int)

Friends

· class linkedList

2.4.1 Constructor & Destructor Documentation

2.4.1.1 queueLinked()

```
queueLinked::queueLinked ( )
```

Default C-tor.

Precondition

When a class object is called it gives it default values

Postcondition

Will give all the values 0

2.4.2 Member Function Documentation

2.4.2.1 getAvail()

```
bool queueLinked::getAvail ( )
```

Will check if it is empty.

Parameters

index

Returns

bool

Precondition

Will check that index position

Postcondition

If the index goes over the set amount it is at the end

2.4.2.2 processArrival()

Will procees the arrival time for that index.

Parameters

index	
time	

Precondition

Will take in current time to set the wait time

Postcondition

Will set the wait time for that index, and set the tller to false

2.4.2.3 processDeparture()

Will proccess the departure time and all the other data.

Parameters

index

Precondition

Will take in the index to get and set data for that index

Postcondition

Will calcualte the departure time for the customer

2.4.2.4 setAvail()

```
void queueLinked::setAvail (
          bool a )
```

Will set the teller to true or false.

Parameters

а

Precondition

Takes in a bool value to set

Postcondition

sets the availibility to a

2.4.2.5 setLine()

```
void queueLinked::setLine (
    int index,
    int arrival,
    int duration )
```

Will give the values of the arrival times and duration times.

Parameters

index	
arrival	
duration	

Precondition

Will take in the index, arrival and duration time to give to the class

Postcondition

Will set the arrival and duration time for that index in the class

The documentation for this class was generated from the following files:

- · queueLinked.h
- queueLinked.cpp

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