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**
            File:
                                          customer.h
            Student:
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                                          Program #10
            Assignment:
            Course Name:
                                    Data Structures II
            Course Number:
                                    COSC 3100-01
            Due:
                                          November 16th, 2022
//
//
            This program is an example of a Heap's member functions
            Other files required:
                 1. heap.h
                  2.
                       waitList.cpp
**
#ifndef CUSTOMER H
#define CUSTOMER H
struct Customer
  char fname [ 15 ],
      lname [ 15 ];
  int mileage,
     years,
     arrivalNum,
     priority;
  Customer ( );
  friend ostream & operator << ( ostream & out, const Customer& data );</pre>
  bool operator == ( const Customer & rhs ) const;
  bool operator == ( int priority ) const;
  bool operator != ( const Customer & rhs ) const;
  bool operator != ( int priority ) const;
  bool operator < ( const Customer & rhs ) const;</pre>
  bool operator < ( int priority ) const;</pre>
  bool operator > ( const Customer & rhs ) const;
  bool operator > ( int priority ) const;
  bool operator <= ( const Customer & rhs ) const;</pre>
  bool operator <= ( int priority ) const;</pre>
  bool operator >= ( const Customer & rhs ) const;
  bool operator >= ( int priority ) const;
   int operator % ( int priority ) const;
  Customer & operator = ( int priority );
};
Customer :: Customer ( )
```

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priority = 0;
ostream & operator << ( ostream & out, const Customer & data )
    out << left << setw ( 12 ) << data.priority << setw ( 15 ) << data.arrivalNum << setw ( 9 ) <<
data.fname
        << setw ( 13 ) << data.lname << setw ( 15 ) << data.mileage << data.years;
    return out;
}
bool Customer :: operator == ( const Customer & rhs ) const
    return ( this->priority == rhs.priority );
bool Customer :: operator == ( int priority ) const
    return ( this->priority == priority );
bool Customer :: operator != ( const Customer & rhs ) const
    return ( this->priority != rhs.priority );
bool Customer :: operator != ( int value ) const
    return ( this->priority != value );
bool Customer :: operator < ( const Customer & rhs ) const
    return ( this->priority < rhs.priority );</pre>
bool Customer :: operator < ( int priority ) const</pre>
    return ( this->priority < priority );</pre>
}
**
```

```
bool Customer :: operator > ( const Customer & rhs ) const
   return ( this->priority > rhs.priority );
**
bool Customer :: operator > ( int value ) const
   return ( this->priority > value );
bool Customer :: operator <= ( const Customer & rhs ) const</pre>
   return ( this->priority <= rhs.priority );</pre>
bool Customer :: operator <= ( int value ) const</pre>
   return ( this->priority <= value );</pre>
bool Customer :: operator >= ( const Customer & rhs ) const
   return ( this->priority >= rhs.priority );
bool Customer :: operator >= ( int value ) const
   return ( this->priority >= value );
Customer & Customer :: operator = ( int value )
   this->priority = value;
   return *this;
}
int Customer :: operator % ( int value ) const
   return ( this->priority % value );
```

#endif