



Package Explorer × Type Hierarchy

> BTRS  
> BTRSPROJECT  
> JavaProgram  
> Program

Bus.java × Booking.java BusDemo.java

```
3 public class Bus {
4     private int busNo;
5     private boolean ac;
6     private int capacity; // get and set
7
8     Bus(int no, boolean ac, int cap){
9         this.busNo = no;
10        this.ac = ac;
11        this.capacity = cap;
12    }
13    public int getBusNo() {
14        return busNo;
15    }
16    public boolean isAc() {
17        return ac;
18    }
19    public int getCapacity(){
20        return capacity;
21    }
22    public void setAc(boolean val) {
23        ac = val;
24    }
25    public void setCapacity(int cap) {
26        capacity = cap;
27    }
28    public void displayBusInfo() {
29        System.out.println("Bus No:" + busNo + "Ac:" + ac + "Total Capacity:" + capacity);
30    }
31 }
32
```

Task List ×

Find  All Activate... ?

Outline ×

- busNo : int
- ac : boolean
- capacity : int
- Bus(int, boolean, int)
- getBusNo() : int
- isAc() : boolean
- getCapacity() : int
- setAc(boolean) : void
- setCapacity(int) : void
- displayBusInfo() : void

Problems @ Javadoc Declaration Console ×

BusDemo [Java Application] C:\Users\succes\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.8.v20230801-1951\jre\bin\javaw.exe (16-Dec-2023, 9:05:45 pm) [pid: 21

```
Bus No:1Ac:trueTotal Capacity:2
Bus No:2Ac:falseTotal Capacity:50
Bus No:3Ac:trueTotal Capacity:48
Enter 1 to Book and 2 to exit
```

Writable

Smart Insert

29 : 91 : 581



Package Explorer × Type Hierarchy

> BTRS  
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Bus.java Booking.java × BusDemo.java

```
1 package busResv;  
2 import java.util.*;  
3 import java.text.ParseException;  
4 import java.text.SimpleDateFormat;  
5 public class Booking {  
6     String passengerName;  
7     int busNo;  
8     Date date;  
9     Booking(){  
10        Scanner scanner = new Scanner(System.in);  
11        System.out.println("Enter name of passenger: ");  
12        passengerName = scanner.next();  
13        System.out.println("Enter bus no: ");  
14        busNo = scanner.nextInt();  
15        System.out.println("Enter date dd-mm-yyyy");  
16        String dateInput = scanner.next();  
17        SimpleDateFormat dateFormat = new SimpleDateFormat("dd-MM-yyyy");  
18        try {  
19            date = dateFormat.parse(dateInput);  
20        } catch (ParseException e) {  
21            // TODO Auto-generated catch block  
22            e.printStackTrace();  
23        }  
24    }  
25    public boolean isAvailable(ArrayList<Booking> bookings, ArrayList<Bus> buses) {  
26        int capacity = 0;  
27        for(Bus bus:buses) {  
28            if(bus.getBusNo() == busNo)  
29                capacity = bus.getCapacity();  
30        }  
31    }  
32 }
```

Task List ×

Find  All Activate... ?

Outline ×

busResv  
Booking  
passengerName : String  
busNo : int  
date : Date  
Booking()  
isAvailable(ArrayList<Booking>, Ar

Problems @ Javadoc Declaration Console ×

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Bus No:2Ac:falseTotal Capacity:50  
Bus No:3Ac:trueTotal Capacity:48  
Enter 1 to Book and 2 to exit

Writable

Smart Insert

39 : 2 : 1074



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Bus.java Booking.java × BusDemo.java

```
11 System.out.println("Enter name of passenger: ");
12 passengerName = scanner.next();
13 System.out.println("Enter bus no: ");
14 busNo = scanner.nextInt();
15 System.out.println("Enter date dd-mm-yyyy");
16 String dateInput = scanner.next();
17 SimpleDateFormat dateFormat = new SimpleDateFormat("dd-MM-yyyy");
18 try {
19     date = dateFormat.parse(dateInput);
20 } catch (ParseException e) {
21     // TODO Auto-generated catch block
22     e.printStackTrace();
23 }
24 }
25 public boolean isAvailable(ArrayList<Booking> bookings, ArrayList<Bus> buses) {
26     int capacity = 0;
27     for(Bus bus:buses) {
28         if(bus.getBusNo() == busNo)
29             capacity = bus.getCapacity();
30     }
31     int booked = 0;
32     for(Booking b:bookings) {
33         if(b.busNo == busNo && b.date.equals(date)) {
34             booked++;
35         }
36     }
37     return booked<capacity?true:false;
38 }
39 }
40 }
```

Task List ×

Find All Activate...

Outline ×

busResv

- Booking
  - passengerName : String
  - busNo : int
  - date : Date
  - Booking()
  - isAvailable(ArrayList<Booking>, Ar

Problems @ Javadoc Declaration Console ×

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```
1 package busResv;  
2 import java.util.Scanner; //nested package/ hierarchical package  
3 import java.util.ArrayList;  
4 public class BusDemo {  
5     public static void main(String[] args) {  
6         ArrayList<Bus> buses = new ArrayList<Bus>();  
7         ArrayList<Booking> bookings = new ArrayList<Booking>();  
8         buses.add(new Bus(1,true,2));  
9         buses.add(new Bus(2,false,50));  
10        buses.add(new Bus(3,true,48));  
11        int userOpt = 1;  
12        Scanner scanner = new Scanner(System.in);  
13        for(Bus b:buses) {  
14            b.displayBusInfo();  
15        }  
16        while(userOpt==1) {  
17            System.out.println("Enter 1 to Book and 2 to exit");  
18            userOpt = scanner.nextInt();  
19            if(userOpt == 1) {  
20                Booking booking = new Booking();  
21                if(booking.isAvailable(bookings,buses)) {  
22                    bookings.add(booking);  
23                    System.out.println("Your booking is confirmed");  
24                }  
25                else  
26                    System.out.println("Sorry. Bus is full. Try another bus or date.");  
27            }  
28        }  
29    }  
30 }
```

Task List ×

Find  All Activate... ?

Outline ×

busResv  
└ BusDemo  
 └ main(String[]): void

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30:2:917