

Case Study: High Adventure Travel Agency—Part 3

Chapter 6's case study was a program to assist the High Adventure Travel Agency in calculating the costs of their four vacation packages. In Chapter 11, a modification to that program was started, which will be completed here.

Recall that in Chapter 11, data structures were designed to hold all the cost information for a vacation package. You are now ready to add file I/O capabilities. When this section is complete, the program will be able to save the cost information of booked vacation packages to a reservation file. It will also display a list of all the data stored in the file. The menu that is displayed lists the four vacation packages, plus a fifth option which causes the data stored in the reservation file to be displayed. A sixth option exits the program.

New Modules

Three new modules, or functions, will be added to the program: openFile, saveInfo, and showRes. Table 1 describes the purpose of each module.

Table 1

Module Name	Description
openFile	Opens the requested file.
saveInfo	Saves the cost data of a vacation package reservation to the file currently open.
showRes	Displays all of the package reservation data in the file currently open.

The openFile Module

The OpenFile module is called prior to the menu being displayed. It first asks the user to enter the name of a file. That file is then opened for input and output, in binary mode. Here is the pseudocode:

```
openFile Module
        Ask user for file name.
        Open file in binary mode for input and output.
        If file failed to open
            Create the file.
        End If.
   End Module.
The C++ code is shown here:
   void openFile(fstream &file)
        const int SIZE = 256;
        char fileName[SIZE];
        cout << "File name: ";</pre>
        cin.getline(fileName, SIZE);
        file.open(fileName, ios::in | ios::out | ios::binary);
        if (!file)
        {
            cout << "Creating " << fileName << "...\n";</pre>
            // Create the file.
            file.open(fileName, ios::out);
             // Close the file.
             file.close();
             // Reopen the file for input and output.
            file.open(fileName, ios::in | ios::out | ios::binary);
        }
   }
```

The saveInfo Module

The saveInfo module is called after the costs for a specific vacation package have been calculated. The user is asked if he or she wants to save the data. If so, the data structure holding the data is written to the reservation file currently open. Here is the pseudocode:

```
saveInfo Module
        Ask user "Do you want to save this data?".
        If "yes"
            Write record to the file.
            If write operation failed
                 Display error message.
            End If.
        End If.
   End Module.
The C++ code is shown here:
   void saveInfo(Reservation &group, fstream &file)
   {
        char yorN;
        cout << "Do you want to save this data? (Y/N) ";
        cin >> yorN;
        yorN = toupper(yorN);
```

```
// Validate input
while (yorN != 'Y' && yorN != 'N')
{
    cout << "Please enter Y or N\n";
    cin >> yorN;
    yorN = toupper(yorN);
}

// Save the data.
if (yorN == 'Y')
{
    cout << "Saving reservation data.\n";
    file.write(reinterpret_cast<char *>(&group), sizeof(group));
    if (!file)
        cout << "Could not write to file!\n";
}
</pre>
```

The showRes Module

When the user selects option 5 from the menu, the showres module is called. This function moves the file's read position to the beginning of the file. It then begins a loop that displays the record's data, and reads the next record from the file. The loop repeats until the end of the file is encountered. Here is the pseudocode:

```
showRes Module
          Seek beginning of file.
          Read a record from the file.
          While not at the end of the file
              Display the record.
              Ask user to press a key to continue.
              Read a record from the file.
          End While.
   End Module.
The C++ code is shown here:
   void showRes(fstream &file)
   {
        Reservation temp;
        char skip[2];
        file.seekg(OL, ios::beg); // Go to beginning of file.
        file.read(reinterpret cast<char *>(&temp), sizeof(temp));
        while (!file.eof())
            displayInfo(temp);
            cout << "Type a character and press Enter "</pre>
                 << "to continue:";
            cin >> skip;
            file.read(reinterpret cast<char *>(&temp), sizeof(temp));
        if (file.fail())
           file.clear();
                                  // Clear any error state
   }
```

The function defines a local variable, temp, which is a Reservation structure. It's used to hold each record as it is read from the file. After each record's data is displayed, the message "Type a character and press Enter" is displayed. When the user performs this action, the function repeats the loop, reading the next record.

The last if statement tests the condition of the file's fail bit. If file.fail returns true, the fail bit is cleared so processing may resume. (The fail bit may be set after the last record has been read, as a result of the read member trying to read past the end of the file.)

Program 12-23 shows the entire program.

Program 12-23

```
1 // This program will assist the High Adventure Travel Agency
 2 // in booking reservations for any of their 4 major
 3 // vacation packages.
 4 #include <iostream>
5 #include <fstream>
6 #include <iomanip>
   #include <cctype>
   using namespace std;
8
9
10 // Data Structures
11
   struct Package1
                               // Climbing Package
12
13
       int
                               // Number in party
14
       int
                beginners;
                               // Those needing instruction
15
       int
                advanced;
                               // Those not needing instruction
16
       int
                needEquip;
                               // Those renting camping equipment
       double
                baseCharges;
17
                               // Base charges
                               // Total charges
18
       double
                charges;
                               // Cost of instruction
19
       double instruction;
                               // Cost of equipment rental
20
       double equipment;
       double
                discount;
                               // Discount
21
22
       double deposit;
                               // Required deposit
23
   };
24
25
   struct Package2
                               // Scuba Package
26
27
       int
                 num;
                               // Number in party
28
       int
                beginners;
                               // Those needing instruction
29
       int
                advanced;
                               // Those not needing instruction
30
       double
                baseCharges;
                               // Base charges
31
       double
                charges;
                               // Total charges
       double instruction;
                               // Cost of instruction
33
       double discount;
                               // Discount
34
       double
                deposit;
                               // Required deposit
35 };
36
```

(program continues)

```
37 struct Package3
                              // Sky Diving Package
38 {
                              // Number in party
39
       int
                num;
       int
                              // Number at 1st lodging choice
40
                lodge1;
                              // Number at 2nd lodging choice
41
       int
                lodge2;
42
       double baseCharges;
                             // Base charges
       double charges;
43
                             // Total charges
                              // Discount
       double discount;
44
                              // Cost of lodging
45
       double lodging;
       double deposit;
                              // Required deposit
46
47 };
48
49 struct Package4
                              // Spelunking Package
50 {
51
       int
                              // Number in party
                num;
52
       int
                needEquip;
                              // Those renting camping equipment
53
       double baseCharges; // Base charges
       double charges;
                              // Total charges
54
                             // Cost of equipment rental
55
       double equipment;
56
       double discount;
                             // Discount
       double deposit;
                              // Required deposit
57
58 };
59
60 union Pack
61 {
       struct Package1 climb;
62
63
       struct Package2 scuba;
       struct Package3 sky;
64
       struct Package4 spel;
65
66 };
67
68 struct Reservation
69
70
       int packNum;
       union Pack packs;
71
72 };
73
74 // Constants for the charges.
                                      // Base rate - Devil's Courthouse
75 const double CLIMB RATE = 350.0;
76 const double SCUBA RATE = 1000.0;
                                      // Base rate - Bahamas
77 const double SKY_DIVE_RATE = 400.0; // Base rate - Sky diving
78 const double CAVE RATE = 700.0;
                                   // Base rate - Spelunking
79 const double CLIMB INSTRUCT = 100.0; // Climbing instruction
80 const double SCUBA INSTRUCT = 100.0; // Scuba instruction
81 const double DAILY CAMP RENTAL = 40.0; // Daily camping equip. rental
82 const double DAY LODGE 1 = 65.0; // Lodging option (sky diving)
83 const double DAY LODGE 2 = 120.0;
                                        // Lodging option (sky diving)
84
                                                                 (program continues)
```

```
85 // Function prototypes
 86 void openFile(fstream &);
 87 void saveInfo(Reservation &, fstream &);
 88 void climbing(Reservation &);
 89 void scuba(Reservation &);
 90 void skyDive(Reservation &);
 91 void spelunk(Reservation &);
 92 int menu();
 93 void displayInfo(Reservation &);
 94 void displayPack1(Reservation &);
 95 void displayPack2(Reservation &);
 96 void displayPack3(Reservation &);
 97 void displayPack4(Reservation &);
 98
    void showRes(fstream &);
 99
100 int main()
101
102
         int selection;
103
         Reservation group;
104
         fstream file;
105
106
         cout << fixed << showpoint << setprecision(2);</pre>
107
         openFile(file);
108
         do
109
         {
110
             selection = menu();
111
             switch(selection)
112
             {
113
                 case 1 : climbing(group);
114
                          break;
115
                 case 2 : scuba(group);
116
                          break;
117
                 case 3 : skyDive(group);
118
                          break;
                 case 4 : spelunk(group);
119
120
                          break;
121
                 case 5 : showRes(file);
122
                          break;
                 case 6 : cout << "Exiting program.\n\n";</pre>
123
124
             }
125
             if (selection < 5)
126
127
                 displayInfo(group);
128
                 saveInfo(group, file);
129
             }
130
         } while (selection != 6);
131
         file.close();
132
         return 0;
133 }
134
```

```
135 //***************************
136 // Definition of function openFile.
137 // Accepts an fstream object as an argument. The
138 // file is opened for both input and output, in
139 // binary mode.
140 //**************
141
142 void openFile(fstream &file)
143 {
144
        const int SIZE = 256;
145
        char fileName[SIZE];
146
147
       cout << "File name: ";</pre>
148
       cin.getline(fileName, SIZE);
149
150
        file.open(fileName, ios::in | ios::out | ios::binary);
151
        if (!file)
152
        {
            cout << "Creating " << fileName << "...\n";</pre>
153
154
           // Create the file.
155
            file.open(fileName, ios::out);
           // Close the file.
156
157
            file.close();
158
            // Reopen the file for input and output.
            file.open(fileName, ios::in | ios::out | ios::binary);
159
160
        }
161 }
162
163 //**********************************
164 // Definition of function saveInfo.
165 // Accepts a Reservation structure and an fstream object.
166 // The user is asked if the data in the structure
167 // is to be saved. If so, it is saved at the end of the file.*
168
    //*********************************
169
170 void saveInfo(Reservation &group, fstream &file)
171 {
172
        char yorN;
173
174
        cout << "Do you want to save this data? (Y/N) ";
175
        cin >> yorN;
176
        yorN = toupper(yorN);
177
```

(program continues)

```
178
        // Validate input
179
        while (yorN != 'Y' && yorN != 'N')
180
181
            cout << "Please enter Y or N\n";</pre>
182
            cin >> yorN;
183
            yorN = toupper(yorN);
184
        }
185
186
      // Save the data.
187
       if (yorN == 'Y')
188
       {
189
            cout << "Saving reservation data.\n";</pre>
190
            file.write(reinterpret cast<char *>(&group), sizeof(group));
191
            if (!file)
192
                cout << "Could not write to file!\n";</pre>
193
        }
194 }
195
196 //***************************
197 // Definition of function menu.
198 // Displays the main menu and asks the user to select *
199 // an option. Returns an integer in the range 1 - 6. *
200 //**************
201
202 int menu()
203 {
204
        int choice;
205
206
      cout << "High Adventure Travel Agency\n";</pre>
       cout << "----\n";
207
208
       cout << "1) Devil's Courthouse Adventure Weekend\n";</pre>
209
       cout << "2) Scuba Bahama\n";
210
       cout << "3) Sky Dive Colorado\n";</pre>
211
      cout << "4) Barron Cliff Spelunk\n";</pre>
       cout << "5) Show Booked Reservations\n";</pre>
212
213
       cout << "6) Exit Program\n\n";</pre>
214
       cout << "Enter 1, 2, 3, 4, 5, or 6: ";
215
       cin >> choice;
216
217
       while (choice < 1 | choice > 6)
218
        {
219
            cout << "Invalid Selection\n";</pre>
220
            cin >> choice;
221
222
        return choice;
223 }
224
```

```
225 //*****************************
226 // Definition of climbing function.
227 // Uses a Reservation reference parameter to hold the
228 // vacation package information.
229 // This function calculates the charges for the
230 // Devil's Courthouse Adventure Weekend package.
231 //**************************
232
233 void climbing(Reservation &group)
234 {
235
        group.packNum = 1;
236
        cout << "\nDevil's Courthouse Adventure Weekend\n";</pre>
237
        cout << "----\n";
        cout << "How many will be going who need an instructor? ";</pre>
238
239
        cin >> group.packs.climb.beginners;
240
        cout << "How many advanced climbers will be going? ";</pre>
241
        cin >> group.packs.climb.advanced;
242
        group.packs.climb.num = group.packs.climb.beginners +
243
                  group.packs.climb.advanced;
244
        cout << "How many will rent camping equipment? ";</pre>
245
        cin >> group.packs.climb.needEquip;
246
        // Calculate base charges.
247
        group.packs.climb.baseCharges = group.packs.climb.num *
248
                     CLIMB RATE;
249
        group.packs.climb.charges = group.packs.climb.baseCharges;
250
         // Calculate 10% discount for 5 or more.
251
        if (group.packs.climb.num > 4)
252
        {
253
            group.packs.climb.discount = group.packs.climb.charges
                      * .1;
254
255
            group.packs.climb.charges -= group.packs.climb.discount;
256
        }
257
        else
258
            group.packs.climb.discount = 0;
259
        // Add cost of instruction.
260
        group.packs.climb.instruction = group.packs.climb.beginners
261
                     * CLIMB INSTRUCT;
262
        group.packs.climb.charges += group.packs.climb.instruction;
263
        // Add cost of camping equipment rental
        group.packs.climb.equipment = group.packs.climb.needEquip *
264
265
                  DAILY CAMP RENTAL * 4;
         group.packs.climb.charges += group.packs.climb.equipment;
266
267
        // Calculate required deposit.
268
         group.packs.climb.deposit = group.packs.climb.charges / 2.0;
269 }
270
```

(program continues)

```
271 //*****************************
272 // Definition of scuba function.
273 // Uses a Reservation reference parameter to hold the *
274 // vacation package information.
275 // This function calculates the charges for the
276 // Scuba Bahama package.
277 //*****************************
278
279 void scuba(Reservation &group)
280 {
281
        group.packNum = 2;
282
       cout << "\nScuba Bahama\n";</pre>
283
      cout << "----\n";
284
      cout << "How many will be going who need an instructor? ";</pre>
285
      cin >> group.packs.scuba.beginners;
286
       cout << "How many advanced scuba divers will be going? ";</pre>
287
       cin >> group.packs.scuba.advanced;
288
        group.packs.scuba.num = group.packs.scuba.beginners +
289
                group.packs.scuba.advanced;
290
      // Calculate base charges.
        group.packs.scuba.baseCharges = group.packs.scuba.num *
291
292
                 SCUBA RATE;
293
        group.packs.scuba.charges = group.packs.scuba.baseCharges;
294
        // Calculate 10% discount for 5 or more.
295
        if (group.packs.scuba.num > 4)
296
297
            group.packs.scuba.discount = group.packs.scuba.charges
298
                 * .1;
299
            group.packs.scuba.charges -= group.packs.scuba.discount;
300
        }
301
        else
302
            group.packs.scuba.discount = 0;
303
        // Add cost of instruction.
304
        group.packs.scuba.instruction = group.packs.scuba.beginners
305
              * SCUBA INSTRUCT;
306
        group.packs.scuba.charges += group.packs.scuba.instruction;
307
        // Calculate required deposit.
308
        group.packs.scuba.deposit = group.packs.scuba.charges / 2.0;
309 }
310
311 //****************************
312 // Definition of skyDive function.
313 // Uses a Reservation reference parameter to hold the *
314 // vacation package information.
315 // This function calculates the charges for the
316 // Sky Dive Colorado package.
317 //****************************
318
```

```
319 void skyDive(Reservation &group)
320 {
321
        group.packNum = 3;
322
        cout << "\nSky Dive Colorado\n";</pre>
323
        cout << "----\n";
324
        cout << "How many will be going? ";</pre>
        cin >> group.packs.sky.num;
325
326
        // Calculate base charges.
327
        group.packs.sky.baseCharges = group.packs.sky.num *
328
                    SKY DIVE RATE;
329
        group.packs.sky.charges = group.packs.sky.baseCharges;
330
        // Calculate 10% discount for 5 or more.
331
        if (group.packs.sky.num > 4)
332
333
            group.packs.sky.discount = group.packs.sky.charges * .1;
334
            group.packs.sky.charges -= group.packs.sky.discount;
335
        }
336
        else
337
            group.packs.sky.discount = 0;
338
        // Calculate lodging costs.
339
        cout << "How may will stay at Wilderness Lodge? ";</pre>
340
        cin >> group.packs.sky.lodge1;
341
        cout << "How many will stay at Luxury Inn? ";</pre>
342
        cin >> group.packs.sky.lodge2;
343
        group.packs.sky.lodging = (group.packs.sky.lodge1 *
344
            DAY LODGE 1) + (group.packs.sky.lodge2 * DAY LODGE 2);
        group.packs.sky.charges += group.packs.sky.lodging;
345
        // Calculate required deposit.
346
347
        group.packs.sky.deposit = group.packs.sky.charges / 2.0;
348 }
349
350 //***************************
351 // Definition of spelunk function.
352 // Uses a Reservation reference parameter to hold the *
353 // vacation package information.
354 // This function calculates the charges for the
355 // Barron Cliff Spelunk package.
356 //****************************
357
358 void spelunk(Reservation &group)
359 {
360
        group.packNum = 4;
361
        cout << "\nBarron Cliff spelunk Weekend\n";</pre>
      cout << "----\n";
362
363
       cout << "How many will be going? ";</pre>
364
       cin >> group.packs.spel.num;
365
      cout << "How many will rent camping equipment? ";</pre>
366
      cin >> group.packs.spel.needEquip;
                                                                  (program continues)
```

```
367
        // Calculate base charges.
368
        group.packs.spel.baseCharges = group.packs.spel.num *
369
                  CAVE RATE;
370
        group.packs.spel.charges = group.packs.spel.baseCharges;
        // Calculate 10% discount for 5 or more.
371
372
        if (group.packs.spel.num > 4)
373
374
            group.packs.spel.discount = group.packs.spel.charges * .1;
375
            group.packs.spel.charges -= group.packs.spel.discount;
376
        }
        else
377
            group.packs.spel.discount = 0;
378
379
        // Add cost of camping equipment rental
380
        group.packs.spel.equipment = group.packs.spel.needEquip *
381
                DAILY CAMP RENTAL * 4;
382
        group.packs.spel.charges += group.packs.spel.equipment;
383
        // Calculate required deposit.
384
        group.packs.spel.deposit = group.packs.spel.charges / 2.0;
385 }
386
387 //******************************
388 // Definition of function displayInfo.
389 // Uses a Reservation reference parameter to hold the
390 // vacation package information. This function looks in the
391 // group.packNum member to determine which function to call
    // to display the vacation package information.
    //********************
393
394
395 void displayInfo(Reservation &group)
396 {
397
        switch (group.packNum)
398
399
            case 1: displayPack1(group);
400
               break;
401
          case 2: displayPack2(group);
402
               break;
403
          case 3: displayPack3(group);
404
              break;
405
          case 4: displayPack4(group);
406
               break;
407
            default: cout << "ERROR: Invalid package number.\n";</pre>
408
        }
409 }
410
411 //*****************************
412 // Definition of function displayPack1.
413 // Uses a Reservation reference parameter to hold the
414 // vacation package information. This function displays the
415 // information stored for vacation package 1.
417
```

```
418 void displayPack1(Reservation &group)
419 {
420
         cout << "Package: Devil's Courthouse Adventure Weekend\n";</pre>
421
         cout << "Number in party: "</pre>
422
            << group.packs.climb.num << endl;
423
        cout << "Base charges: $"</pre>
424
            << group.packs.climb.baseCharges << endl;</pre>
        cout << "Instruction cost: $"</pre>
425
426
            << group.packs.climb.instruction << endl;
427
        cout << "Equipment rental: $"</pre>
428
            << group.packs.climb.equipment << endl;
429
        cout << "Discount: $"</pre>
430
            << group.packs.climb.discount << endl;
431
       cout << "Total charges: $"</pre>
432
            << group.packs.climb.charges << endl;
433
        cout << "Required deposit: $"</pre>
434
            << group.packs.climb.deposit << endl << endl;
435 }
436
437 //**********************************
438 // Definition of function displayPack2.
439 // Uses a Reservation reference parameter to hold the
440 // vacation package information. This function displays the
441 // information stored for vacation package 2.
442 //*******************************
443
444 void displayPack2(Reservation &group)
445 {
446
        cout << "Package: Scuba Bahama\n";</pre>
447
        cout << "Number in party: "</pre>
448
            << group.packs.scuba.num << endl;
449
        cout << "Base charges: $"</pre>
450
            << group.packs.scuba.baseCharges << endl;</pre>
451
      cout << "Instruction cost: $"</pre>
452
            << group.packs.scuba.instruction << endl;
453
       cout << "Discount: $"
454
            << group.packs.scuba.discount << endl;
455
        cout << "Total charges: $"</pre>
456
            << group.packs.scuba.charges << endl;</pre>
457
        cout << "Required deposit: $"</pre>
458
            << group.packs.scuba.deposit << endl << endl;
459 }
460
461 //******************************
462 // Definition of function displayPack3.
463 // Uses a Reservation reference parameter to hold the
464 // vacation package information. This function displays the
465 // information stored for vacation package 3.
466
    //**********************************
467
```

```
468 void displayPack3(Reservation &group)
470
        cout << "Package: Sky Dive Colorado\n";</pre>
      cout << "Number in party: "</pre>
471
472
         << group.packs.sky.num << endl;
473 cout << "Base charges: $"
474
          << group.packs.sky.baseCharges << endl;</pre>
475 cout << "Lodging: $"
476
           << group.packs.sky.lodging << endl;
477
      cout << "Discount: $"
478
           << group.packs.sky.discount << endl;
479
      cout << "Total charges: $"</pre>
480
          << group.packs.sky.charges << endl;</pre>
   cout << "Required deposit: $"
481
482
          << group.packs.sky.deposit << endl << endl;</pre>
483 }
484
485 //*******************************
486 // Definition of function displayPack4.
487 // Uses a Reservation reference parameter to hold the
488 // vacation package information. This function displays the
489 // information stored for vacation package 4.
490 //*******************************
491
492 void displayPack4(Reservation &group)
493 {
     cout << "Package: Barron Cliff Spelunk\n";</pre>
494
495
      cout << "Number in party: "</pre>
496
           << group.packs.spel.num << endl;
      cout << "Base charges: $"</pre>
497
498
            << group.packs.spel.baseCharges << endl;</pre>
499 cout << "Equipment rental: $"
500
          << group.packs.spel.equipment << endl;</pre>
501 cout << "Discount: $"
502
          << group.packs.spel.discount << endl;</pre>
      cout << "Total charges: $"</pre>
503
504
          << group.packs.spel.charges << endl;</pre>
       cout << "Required deposit: $"</pre>
505
506
           << group.packs.spel.deposit << endl << endl;
507 }
508
509 //*****************
510 // Definition of function showRes.
511 // Accepts an fstream object as an argument. Seeks the
512 // beginning of the file and then reads and displays
513 // each record.
514 //***************************
515
```

```
516 void showRes(fstream &file)
517 {
518
        Reservation temp;
519
        char skip[2];
520
521
        file.seekg(OL, ios::beg); // Go to beginning of file.
        file.read(reinterpret cast<char *>(&temp), sizeof(temp));
522
        while (!file.eof())
523
524
       {
525
             displayInfo(temp);
526
            cout << "Type a character and press Enter "</pre>
527
                << "to continue:";
528
            cin >> skip;
529
            file.read(reinterpret cast<char *>(&temp), sizeof(temp));
530
531
        if (file.fail())
532
            file.clear(); // Clear any error state
533 }
```

Program Output with Example Input Shown in Bold

```
File name: resfile [Enter]
High Adventure Travel Agency
_____
1) Devil's Courthouse Adventure Weekend
2) Scuba Bahama
3) Sky Dive Colorado
4) Barron Cliff Spelunk
5) Show Booked Reservations
6) Exit Program
Enter 1, 2, 3, 4, 5, or 6: 1 [Enter]
Devil's Courthouse Adventure Weekend
How many will be going who need an instructor? 3 [Enter]
How many advanced climbers will be going? 2 [Enter]
How many will rent camping equipment? 3 [Enter]
Package: Devil's Courthouse Adventure Weekend
Number in party: 5
Base charges: $1750.00
Instruction cost: $300.00
Equipment rental: $480.00
Discount: $175.00
Total charges: $2355.00
Required deposit: $1177.50
Do you want to save this data? (Y/N) y [Enter]
Saving reservation data.
                                                       (program output continues)
```

```
High Adventure Travel Agency
-----
1) Devil's Courthouse Adventure Weekend
2) Scuba Bahama
3) Sky Dive Colorado
4) Barron Cliff Spelunk
5) Show Booked Reservations
6) Exit Program
Enter 1, 2, 3, 4, 5, or 6: 3 [Enter]
Sky Dive Colorado
How many will be going? 8 [Enter]
How many will stay at Wilderness Lodge? 4 [Enter]
How many will stay at Luxury Inn? 4 [Enter]
Package: Sky Dive Colorado
Number in party: 8
Base charges: $3200.00
Lodging: $740.00
Discount: $320.00
Total charges: $3620.00
Required deposit: $1810.00
Do you want to save this data? (Y/N) y [Enter]
Saving reservation data.
High Adventure Travel Agency
_____
1) Devil's Courthouse Adventure Weekend
2) Scuba Bahama
3) Sky Dive Colorado
4) Barron Cliff Spelunk
5) Show Booked Reservations
6) Exit Program
Enter 1, 2, 3, 4, 5, or 6: 5 [Enter]
Package: Devil's Courthouse Adventure Weekend
Number in party: 5
Base charges: $1750.00
Instruction cost: $300.00
Equipment rental: $480.00
Discount: $175.00
Total charges: $2355.00
Required deposit: $1177.50
                                                      (program output continues)
```

(continued)

Type a character and press Enter to continue: g [Enter]

Package: Sky Dive Colorado

Number in party: 8
Base charges: \$3200.00
Lodging: \$740.00

Discount: \$320.00 Total charges: \$3620.00 Required deposit: \$1810.00

Type a character and press Enter to continue: g [Enter]

High Adventure Travel Agency

._____

- 1) Devil's Courthouse Adventure Weekend
- 2) Scuba Bahama
- 3) Sky Dive Colorado
- 4) Barron Cliff Spelunk
- 5) Show Booked Reservations
- 6) Exit Program

Enter 1, 2, 3, 4, 5, or 6: 6 [Enter] Exiting program.