```
 1  using System;
 2  using System.Collections.Generic;
 3  using System.IO;
 4  using System.Linq;
 5  using System.Text;
 6
 7  namespace vhodnotry3
 8  {
 9      class Methods
10      {
11          public Methods()
12          {
13              string user = Console.ReadLine();
14              Console.WriteLine();
15              List<Workers> workers = new List<Workers>();
16              if (user == "Guest")
17              {
18                  UserUser();
19              }
20              else if (user == "Admin")
21              {
22                  UserAdmin();
23              }
24
25          }
26          static void UserUser()
27          {
28              List<Workers> workers = new List<Workers>();
29              using (StreamReader streamReader = new StreamReader("TextFile1.txt"))
30              {
31                  string line;
32
33                  while ((line = streamReader.ReadLine()) != null)
34                  {
35                      string[] input = line.Split('/');
36                      Workers neznam = new Workers();
37
38                      neznam.FirstName = input[0];
39                      neznam.MiddleName = input[1];
40                      neznam.LastName = input[2];
41                      neznam.Address = input[3];
42                      neznam.Number = int.Parse(input[4]);
43                      neznam.Salary = double.Parse(input[5]);
44
45                      workers.Add(neznam);
46                  }
47              }
48              Console.WriteLine("1: View");
49              Console.WriteLine("2: Sort");
50              Console.WriteLine("3: Exit");
51              Console.WriteLine();
52              int action = int.Parse(Console.ReadLine());
```

```
53              Console.WriteLine();
54
55              while (action != 3)
56              {
57                  if (action == 1)
58                  {
59                      UsersView(workers);
60                  }
61                  else if (action == 2)
62                  {
63                      Console.WriteLine("1: Sort by first name");
64                      Console.WriteLine("2: Sort by second name");
65                      Console.WriteLine("3: Sort by address");
66                      Console.WriteLine("4: Sort by salary");
67
68                      Console.Write("Sorting by ");
69                      string option = Console.ReadLine();
70
71                      if (option == "first name")
72                      {
73                          workers = workers.OrderBy(a => a.FirstName).ToList();
74                      }
75                      else if (option == "last name")
76                      {
77                          workers = workers.OrderBy(b => b.LastName).ToList();
78                      }
79                      else if (option == "address")
80                      {
81                          workers = workers.OrderBy(c => c.Address).ToList();
82                      }
83                      else if (option == "salary")
84                      {
85                          workers = workers.OrderBy(d => d.Salary).ToList();
86                      }
87                      else
88                      {
89                          Console.WriteLine("Wrong input!");
90
91                      }
92                  }
93                  else if (action == 3)
94                  {
95                      break;
96                  }
97                  else
98                  {
99                      Console.WriteLine("Wrong action!");
100                 }
101                 Console.WriteLine();
102
103                 Console.WriteLine("1: View");
104                 Console.WriteLine("2: Sort");
```

```
105                 Console.WriteLine("3: Exit");
106                 Console.WriteLine();
107                 action = int.Parse(Console.ReadLine());
108             }
109 
110         }
111         static void UserAdmin()
112         {
113             List<Workers> workers = new List<Workers>();
114             using (StreamReader streamReader = new StreamReader("TextFile1.txt"))
115             {
116                 string line;
117 
118                 while ((line = streamReader.ReadLine()) != null)
119                 {
120                     string[] input = line.Split('/');
121                     Workers neznam = new Workers();
122 
123                     neznam.FirstName = input[0];
124                     neznam.MiddleName = input[1];
125                     neznam.LastName = input[2];
126                     neznam.Address = input[3];
127                     neznam.Number = int.Parse(input[4]);
128                     neznam.Salary = double.Parse(input[5]);
129 
130                     workers.Add(neznam);
131                 }
132             }
133             Console.WriteLine("1: Add");
134             Console.WriteLine("2: Remove");
135             Console.WriteLine("3: View");
136             Console.WriteLine("4: Sort");
137             Console.WriteLine("5: Exit");
138             Console.WriteLine();
139             int action = int.Parse(Console.ReadLine());
140             Console.WriteLine();
141 
142             while (action != 5)
143             {
144                 if (action == 1)
145                 {
146                     Add(workers);
147                 }
148                 else if (action == 2)
149                 {
150                     Remove(workers);
151                 }
152                 else if (action == 3)
153                 {
154                     UsersAdmin(workers);
155                 }
156                 else if (action == 4)
```

```
157                 {
158                     Console.WriteLine("1: Sort by first name");
159                     Console.WriteLine("2: Sort by second name");
160                     Console.WriteLine("3: Sort by address");
161                     Console.WriteLine("4: Sort by salary");
162 
163                     Console.Write("Sort by ");
164                     string option = Console.ReadLine();
165 
166                     if (option == "first name")
167                     {
168                         workers = workers.OrderBy(a => a.FirstName).ToList();
169                     }
170                     else if (option == "second name")
171                     {
172                         workers = workers.OrderBy(b => b.LastName).ToList();
173                     }
174                     else if (option == "address")
175                     {
176                         workers = workers.OrderBy(c => c.Address).ToList();
177                     }
178                     else if (option == "salary")
179                     {
180                         workers = workers.OrderBy(d => d.Salary).ToList();
181                     }
182                     else
183                     {
184                         Console.WriteLine("Wrong input!");
185 
186                     }
187                 }
188                 else if (action == 5)
189                 {
190                     break;
191                 }
192                 else
193                 {
194                     Console.WriteLine("Wrong action!");
195 
196                 }
197 
198                 Console.WriteLine();
199                 Console.WriteLine("1: Add");
200                 Console.WriteLine("2: Remove");
201                 Console.WriteLine("3: View");
202                 Console.WriteLine("4: Sort");
203                 Console.WriteLine("5: Exit");
204                 Console.WriteLine();
205 
206                 action = int.Parse(Console.ReadLine());
207                 Console.WriteLine();
208             }
```

```
209         }
210         static void Add(List<Workers> a)
211         {
212
213             int n = int.Parse(Console.ReadLine());
214             Console.WriteLine();
215             for (int i = 1; i <= n; i++)
216             {
217                 Workers workerneew = new Workers();
218                 Console.WriteLine($"Enter info about your {n} new workers");
219                 string[] readEmployee = Console.ReadLine().Split('/').ToArray();
220                 Console.WriteLine();
221
222                 workerneew.FirstName = readEmployee[0];
223                 workerneew.MiddleName = readEmployee[1];
224                 workerneew.LastName = readEmployee[2];
225                 workerneew.Address = readEmployee[3];
226                 workerneew.Number = int.Parse(readEmployee[4]);
227                 workerneew.Salary = double.Parse(readEmployee[5]);
228
229                 a.Add(workerneew);
230
231                 using (StreamWriter streamWriter = new StreamWriter
                      ("TextFile.txt", true))
232                 {
233                     streamWriter.WriteLine($"{workerneew.FirstName}
                      {workerneew.MiddleName} {workerneew.LastName}
                      {workerneew.Address} {workerneew.Number}
                      {workerneew.Salary}");
234                 }
235             }
236
237             Console.WriteLine("User added!");
238             Console.WriteLine();
239         }
240         static void Remove(List<Workers> people)
241         {
242
243             foreach (var employee in people)
244             {
245                 Console.WriteLine(employee.PrintWorkersAdmin());
246             }
247             Console.WriteLine();
248
249
250             int n = int.Parse(Console.ReadLine());
251             Console.WriteLine();
252
253             for (int i = 1; i <= n; i++)
254             {
255                 Console.WriteLine($"Enter info about the {n} workers you are
                      firing");
```

```
256                 string employeeToFire = Console.ReadLine();
257
258                 string[] readText = File.ReadAllLines("TextFile1.txt");
259                 File.WriteAllText("TextFile1.txt", String.Empty);
260
261                 using (StreamWriter streamWriter = new StreamWriter
                      ("TextFile1.txt", true))
262                 {
263                     foreach (var line in readText)
264                     {
265                         if (!line.Equals(employeeToFire))
266                         {
267                             streamWriter.WriteLine(line);
268                         }
269                     }
270                 }
271             }
272
273             people.Clear();
274             using (StreamReader streamReader = new StreamReader("TextFile1.txt"))
275             {
276                 string line;
277
278                 while ((line = streamReader.ReadLine()) != null)
279                 {
280                     string[] input = line.Split().ToArray();
281                     Workers workerTwo = new Workers();
282                     workerTwo.FirstName = input[0];
283                     workerTwo.MiddleName = input[1];
284                     workerTwo.LastName = input[2];
285                     workerTwo.Address = input[3];
286                     workerTwo.Number = int.Parse(input[4]);
287                     workerTwo.Salary = double.Parse(input[5]);
288
289                     people.Add(workerTwo);
290                 }
291             }
292         }
293         static void UsersAdmin(List<Workers> workers)
294         {
295             foreach (var employee in workers)
296             {
297                 Console.WriteLine(employee.PrintWorkersAdmin());
298             }
299         }
300         static void UsersView(List<Workers> workers)
301         {
302             foreach (var employee in workers)
303             {
304                 Console.WriteLine(employee.PrintWorkersUser());
305             }
306         }
```

```
307      }
308  }
309
```