```
1 #include "ParkingTower.h"
2 #include <iostream>
3 #include <conio.h>
4 #include <cstring>
5 using namespace std;
7 void ParkingTower::DisplayMenu()
8 {
9
      PrintOpenMessage();
10
      cout << "========#n";
11
      cout << endl;</pre>
      cout << "
               [1] 입고
                               [2] 출고 [3] 주차현황" << endl;
12
13
      cout << endl;</pre>
14
      15
16 }
17
18 void ParkingTower∷PrintSuccessMessage() {
      cout << " Succed Parking" << endl;</pre>
19
20 }
21 void ParkingTower::PrintOpenMessage()
      cout << " 문이 열립니다." << endl;
23
24 }
25 void ParkingTower::PrintClosedMessage()
26 {
      cout << " 문이 닫힙니다." << endl;
27
28 }
29 void ParkingTower::PrintNiceDay()
30 {
      cout << " Have a nice day" << endl;</pre>
31
32 }
33
34
35 void ParkingTower::Checkin()
36 {
37
      int flag = 0;
38
      int i, myCarNum;
39
      char myCarType;
40
41
      for (i = 0; i < 8; i++)
42
          if (parkingSpace[i]->GetCarNumber() == 0)
43
44
             break:
45
          else if (i == 7) {
46
             flag++;
             cout << "주차 공간이 없습니다." << endl;
47
48
      }
49
50
51
      if (flag == 0) {
          cout << " 차량 번호를 입력해주세요 : ";
52
53
          cin >> myCarNum;
54
55
          while (true) {
             cout << " 차량 종류를 입력해주세요 : [1] SUV [2] Sedan" <<
56
```

```
endl;
                myCarType = _getch();
57
 58
 59
                 if (myCarType == '1') {
 60
                     parkingSpace[i] = new Suv(myCarNum);
61
                     PrintClosedMessage();
 62
                     PrintSuccessMessage();
63
                    break;
                }
64
                else if (myCarType == '2') {
 65
 66
                     parkingSpace[i] = new Sedan(myCarNum);
 67
                     PrintClosedMessage();
                     PrintSuccessMessage();
 68
 69
                    break;
                }
 70
 71
                else {
                     cout << " 1 또는 2를 입력해주세요" << endl;
 72
 73
                     continue;
 74
                }
 75
            }
 76
        }
77 }
 78
 79
 80
81 void ParkingTower::ParkingCheck()
82 {
83
        int i;
        char* p1, * p2;
84
85
        int countCar = 0;
        int countSuv = 0;
86
 87
        int countSaloon = 0;
 88
        for (i = 0; i < 8; i++)
89
90
            p1 = strstr(parkingSpace[i]->GetType(), (char*)"SUV");
91
92
            p2 = strstr(parkingSpace[i]->GetType(), (char*)"Sedan");
93
             if (p1 != 0) {
 94
95
                countCar++;
96
                countSaloon++;
97
            if (p2 != 0) {
98
99
                countSaloon++;
100
                countCar++;
101
102
103
        cout << "[주차된 자동차 수] : (" << countCar << "/8)" << " ₩n[SUV] : " マ
104
          << countSuv << "대";
105
        cout << "
                                 [Sedan] : " << countSaloon << "대" << endl;
106 }
107
108
109 void ParkingTower::DisplsyParkingSpace()
110 {
```

```
...s\\2022_06_24_workspace\\2022_06_24_workspace\\ParkingTower.cpp
```

```
3
```

```
111
       char esc:
112
113
       ParkingCheck();
       cout << "=========== [ 4 floor ] ==========\\m\m";
114
                            " << parkingSpace[7]->GetType() << "(" <<</pre>
115
                                                                             P
         parkingSpace[7]->GetCarNumber();
                             " << parkingSpace[6]->GetType() << "(" <<
116
       cout << ")
         parkingSpace[7]->GetCarNumber() << ")" << endl;</pre>
       117
                            " << parkingSpace[5]->GetType() << "(" <<</pre>
118
         parkingSpace[5]->GetCarNumber();
                             " << parkingSpace[4]->GetType() << "(" <<</pre>
       cout << ")
119
         parkingSpace[4]->GetCarNumber() << ")" << endl;</pre>
       120
       cout << "
                   " << parkingSpace[3]->GetType() << "(" <<
121
         parkingSpace[3]->GetCarNumber();
       cout << ")
                             " << parkingSpace[2]->GetType() << "(" <<</pre>
122
         parkingSpace[2]->GetCarNumber() << ")" << endl;</pre>
       cout << "₩n========== [ 1 floor ] =======₩n₩n";
123
       cout << "
                            " << parkingSpace[1]->GetType() << "(" <<</pre>
124
         parkingSpace[1]->GetCarNumber();
                             " << parkingSpace[0]->GetType() << "(" <<</pre>
125
       cout << ")
         parkingSpace[0]->GetCarNumber() << ")" << endl;</pre>
       cout << "\n=======\\n";
126
127
       cout << "₩n
                                                             [ESC]\n";
128
       while (true) {
129
           esc = _getch();
130
           if (esc == 27)
131
132
               break;
133
134 }
135
136 void ParkingTower::CheckOut()
137
       int i, myCarNumber;
138
139
       int flag = 0;
140
141
142
       PrintClosedMessage();
       cout << " 차 번호를 입력해주세요 : ";
143
144
       cin >> myCarNumber;
145
146
       for (i = 0; i < 8; i++)
147
148
           if (parkingSpace[i]->GetCarNumber() == myCarNumber && myCarNumber != >>
149
             0) {
150
               break;
151
152
           else if (i == 7)
153
               flag = 1;
154
       if (flag == 0) {
155
156
           cout << " 출고 : " << parkingSpace[i]->GetCarNumber() << "(" <<
             parkingSpace[i]->GetType() << ")₩n";
```

```
...s\2022_06_24_workspace\2022_06_24_workspace\ParkingTower.cpp
```

```
157
            parkingSpace[i]->SetCarNumber((int)0);
            parkingSpace[i]->SetType((const char*)"NULL");
158
            PrintOpenMessage();
159
            PrintNiceDay();
160
161
        if (flag == 1) {
162
            cout << " 해당 차량이 없습니다." << endl;
163
        }
164
165 }
166
167
```