# 程式設計 HW5 Part3 Coding

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## 1. Chips and Salsa

```
G 1.cpp > 分 main()
       #include <iostream>
       #include <string>
       #include <sstream>
       using namespace std;
       string salsa[]={"mild", "medium", "sweet", "hot","zesty"};
       int sold[5]={0,0,0,0,0,0};
       int main(){
             int jarnum=0,maxsold=0,maxindex=0,leastindex=0,leastsold=0,sum=0;
            bool startover:
             for(jarnum=0;jarnum<5;jarnum++){</pre>
                  do{
                       startover=0;
                      cout<<"Please enter the jar sold of "<<salsa[jarnum]<<" : ";</pre>
 15
                       string input;
                      getline(cin,input);
                       stringstream num(input);
                       if(!(num >> sold[jarnum] )) {
                            cout<<"You should input nonnegative integer.\n"<<endl;</pre>
                            startover=1;
                      char ischar;
                       if (num >> ischar){
                            cout<<"You should input nonnegative integer.\n"<<endl;</pre>
                            startover=1;
                       if(sold[jarnum]<0){</pre>
                            cout<<"You should input nonnegative integer.\n"<<endl;</pre>
                            startover=1;
                 leastsold=sold[0];
                 if (sold[jarnum]>=maxsold){ maxsold=sold[jarnum]; maxindex=jarnum; }
                 if (sold[jarnum]<=leastsold){ leastsold=sold[jarnum]; leastindex=jarnum; }</pre>
             }while(startover);
          cout<<endl<<"|"<<setfill('=')<<setw(40)<<"|"<<endl;
          for(jarnum=0;jarnum<5;jarnum++){</pre>
             cout<<" The jar sold of "<<setfill(' ')<<setw(10)<<salsa[jarnum]<<" is : "<<sold[jarnum]<<endl;</pre>
             sum+=sold[jarnum];
         cout<<" The total sold of salsa is "<<sum<<"."<<endl;</pre>
          cout<<" The highest selling is "<<salsa[maxindex]<<"."<<endl;</pre>
          cout<<" The lowest selling is "<<salsa[leastindex]<<"."<<endl;</pre>
          cout<<"|"<<setfill('=')<<setw(40)<<"|"<<endl; PS C:\Users\User\OneDrive\作業\C++HW5> ./1.exe
         return 0;
                                                    Please enter the jar sold of mild : 10
                                                     Please enter the jar sold of medium : 5
                                                     Please enter the jar sold of sweet : -1
                                                     You should input nonnegative integer.
                                                    Please enter the jar sold of sweet : 6
                                                    Please enter the jar sold of hot : 0
Please enter the jar sold of zesty : 7
                                                                            mild is: 10
                                                       The jar sold of
                                                       The jar sold of
                                                                           medium is : 5
                                                       The jar sold of
                                                                            sweet is: 6
                                                       The jar sold of
The jar sold of
                                                                             hot is: 0
                                                                            zesty is: 7
                                                       The total sold of salsa is 28.
                                                       The highest selling is mild.
                                                       The lowest selling is zesty.
```

#### 2. Driver's License Exam

```
🕒 2.cpp > ધ TestGrader > 🛇 grade(char [])
      #include<iostream>
      #include<iomanip>
      using namespace std;
      string rightanswer = "BCCDCDADABABBDDAACCA";
      class TestGrader{
          private:
              char answers[20];
              void setKey(string answers){
                  for(int i = 0; i < answers.size() && <math>i < 20; i++){
                      this->answers[i] = answers[i];
              }
              string grade(char stdans[] ){
                  int right=0,wrong=0;
                  bool wronglist[20],pass;
                  string ret,strright,strwrong,list;
                  for(int i = 0; i < 20; i++){
                       if(this->answers[i] == stdans[i]){
                           wronglist[i]=0;
                           right++;
                           wronglist[i]=1;
                           wrong++;
```

```
C 2.cpp > ☆ TestGrader > ☆ grade(char [])
                    stringstream transfer;
                    transfer << right;</pre>
                    transfer >> strright;
                    transfer.clear();
                    transfer << wrong;
                    transfer >> strwrong;
                    transfer.clear();
                    if(right>=15) ret += "Pass\n";
                    ret += "Ur right answer is " + strright + ".\n" ;
ret += "Ur wrong answer is " + strwrong + ".\n" ;
                    ret +="Wrong number list: ";
                    for(int i=0; i<20; i++){
                         if (wronglist[i]){
                             transfer << i;
                             transfer >> list;
                             transfer.clear();
                             ret += list + " ";
                    ret += "\n";
                    return ret;
       int main(int argc, char* argv[]){
           TestGrader testGrader;
           testGrader.setKey(rightanswer);
           string s:
```

```
bool flag=0;
char answer[20];
char isgame;
    for(int i=0;i<20;i++){
           cout<<"Please enter the answer for Q"<<i<<" :";
            getline(cin,s);
            answer[i] = s[0];
             if(s.size()>1 || answer[i]<'A' || answer[i]>'D'){
                cout<<"Please enter A~D only.\n";</pre>
             } else {
                 break;
    cout<<testGrader.grade(answer);</pre>
        cout<<"Do u want to continue?\n";</pre>
        cout<<"Please enter Y/N only.\n";</pre>
        getline(cin,s);
        isgame = s[0];
if(isgame=='Y') flag =1;
        else flag=0;
    }while(s.size()>1 || (isgame != 'Y' && isgame != 'N'));
} while (flag);
return 0;
```

```
PS C:\Users\User\OneDrive\作業\C++HW5> ./2.exe
Please enter the answer for Q0 :A
Please enter the answer for Q1 :A
Please enter the answer for Q2 :A
Please enter the answer for Q3 :S
Please enter A~D only.
Please enter the answer for Q3:A
Please enter the answer for Q4 :A
Please enter the answer for Q5 :A
Please enter the answer for Q6 :A
Please enter the answer for Q7 :A
Please enter the answer for Q8 :A
Please enter the answer for Q9 :A
Please enter the answer for Q10 :A
Please enter the answer for Q11:A
Please enter the answer for Q12:A
Please enter the answer for Q13:A
Please enter the answer for Q14 :A
Please enter the answer for Q15 :A
Please enter the answer for Q16 :A
Please enter the answer for Q17 :A
Please enter the answer for Q18 :A
Please enter the answer for Q19 :A
Fail
Ur right answer is 6.
Ur wrong answer is 14.
Wrong number list: 0 1 2 3 4 5 7 9 11 12 13 14 17 18
Do u want to continue?
Please enter Y/N only.
Do u want to continue?
Please enter Y/N only.
N
```

## 3. Lottery

```
G 3.cpp > 分 main(int, char * [])
      #include <iostream>
      #include <string>
      #include <sstream>
      #include <cstdlib>
      using namespace std;
       int main(int argc, char* argv[]){
           int winningDigits[5],player[5];
           string s;
           bool flag=1;
           int matchNum;
12
           char isgame;
           srand( time(NULL) );
           do{
               for(int i=0;i<5;i++){
                    winningDigits[i]=rand() % 10;
               bool cont = 1;
               while(cont){
                    cout<<"Please enter ur lucky number:";</pre>
                    getline(cin,s);
                    if(s.size() == 5) {
                        cont = 0;
                         for(int i = 0; i < 5; i++){
                             if(s[i]<'0' || s[i]>'9') cont = 1;
                             player[i] = s[i] - '0';
                   if(cont)[
                       cout<<"Wrong input, do it again.\n";</pre>
              cout << endl;</pre>
              cout << "winningDigits:";</pre>
              for(int i = 0; i < 5; ++i){
                  cout << winningDigits[i] << " ";</pre>
              cout << endl;</pre>
              cout << "player:</pre>
              for(int i = 0; i < 5; ++i){
                  cout << player[i] << " ";
              cout << endl;</pre>
              matchNum = 0;
              for(int i = 0; i < 5; ++i){
                  if(winningDigits[i] == player[i]) matchNum++;
              cout << "You match " << matchNum << " number\n\n";</pre>
              cout<<"Do u want to Quit?\n";</pre>
              cout<<"Please enter Q only.\n";</pre>
              getline(cin,s);
              isgame = s[0];
              if(isgame=='Q') flag =0;
```

```
else flag=1;
} while (flag);
return 0;
65
PS C:\Users\User\OneDrive\作業\C++HW5> ./3.exe
Please enter ur lucky number:11124
winningDigits:2 9 4 6 4
player: 1 1 1 2 4
You match 1 number

Do u want to Quit?
Please enter Q only.
Q
PS C:\Users\User\OneDrive\作業\C++HW5> []
```

## 4. Rainfall Statistics

```
G 4.cpp > 分 main(int, char * [])
      #include <iostream>
      #include <sstream>
      using namespace std;
      class Stats{
          private:
              string city;
              string monthYear;
              double rainfall[30];
              int cnt;
11
              int most, least;
              const string month[12]={ "January", "February", "March",
12
                                    "April", "May", "June", "July",
13
                                    "August", "September", "October",
                                    "November", "December"
                                };
          public:
              Stats(string city, string monthYear){
                   this -> city = city;
                   this -> monthYear = monthYear;
                   for(int i=0; i<30; i++) this -> rainfall[i] = 0;
21
                   this \rightarrow cnt = 0;
                   this -> most = 0;
                   this -> least = 0;
              double total(){
                   double sum = 0;
                   for(int i=0; i< this->cnt; i++){
                       sum += this->rainfall[i];
                   return sum;
```

```
33
             double average(){
                 return this->total()/this->cnt;
             double lowest(){
                 double L=rainfall[0];
                 for(int i=0; i< this->cnt; i++){
                     if(this->rainfall[i] < L){</pre>
                         least = i;
                         L = this->rainfall[i];
                 return L;
             double highest(){
                 double M=rainfall[0];
                 for(int i=0; i< this->cnt; i++){
                     if(this->rainfall[i] > M){
                         most = i;
                         M = this->rainfall[i];
                 }
                 return M;
             bool storeValue(double rainfall){
                 if (rainfall<0 || cnt>30) return false;
                 this->rainfall[this->cnt] = rainfall;
                 cnt++;
                 return true;
             string convert(){
```

```
G 4.cpp > 分 main(int, char * [])
                  stringstream ss;
                  int monthnum;
                  ss << this->monthYear.substr(4,2);
                  ss >> monthnum;
                  return this->month[monthnum] + ", " + this->monthYear.substr(0,4);
              }
              string convert(int cnt){
                  stringstream ss;
                  int monthnum, yearnum;
                  string yearstr;
                  ss << this->monthYear.substr(4,2);
                  ss >> monthnum;
                  ss.clear();
                  ss << this->monthYear.substr(0,4);
                  ss >> yearnum;
                  ss.clear();
                  yearnum += (monthnum + cnt)/12;
                  monthnum = (monthnum + cnt)%12;
                  ss << yearnum;
                  ss >> yearstr;
                  return this->month[monthnum] + ", " + yearstr;
              }
              string displayReport(){
                  string ret;
```

```
ret += this->convert() + " -" + this->convert(cnt) + " Rain Report for " + this->city +"County\n";
            stringstream temp;
            string strtemp;
            temp<< total();</pre>
            temp>> strtemp;
            temp.clear();
            ret += "Total rainfall in this period: " + strtemp + " inches\n";
            temp<< average();
            temp>> strtemp;
            temp.clear();
            ret += "Average monthly rainfall: " + strtemp + " inches\n";
            temp<< lowest();</pre>
            temp>> strtemp;
            temp.clear();
            ret += "The least rain fell in " + this->convert(least) + " with " + strtemp + " inches\n";
            temp<< highest();
            temp>> strtemp;
            temp.clear();
            ret += "The most rain fell in " + this->convert(most) + " with " + strtemp + " inches\n";
int main (int argc, char* argv[]){
   string city,monthYear;
   double rainfall;
   int cont;
   string s;
```

```
125
           getline(cin,city);
           cout<<"Please enter the month u started to analyze:";</pre>
126
127
           cin>> monthYear;
           Stats stats(city, monthYear);
128
129
130
           cont = 1;
131
           while(cont){
132
               do{
                    cout<<"\nHow's the rainfall in "<<city<<" ?\n";</pre>
133
134
                    cin>>rainfall;
               }while(!stats.storeValue(rainfall));
135
               getline(cin,s);
136
137
138
               do{
                    cout<<"Do u want to continue?\n";</pre>
139
                    cout<<"Please enter Y/N only.\n";</pre>
                    getline(cin,s);
                    if(s[0]=='Y') cont =1;
                    else cont = 0;
                }while(s.size()>1 || (s[0] != 'Y' && s[0] != 'N'));
144
           cout<<stats.displayReport();</pre>
           return 0;
148
       }
```

```
PS C:\Users\User\OneDrive\作業\C++HW5> ./4.exe
Please enter the city u want to analyze:KH
Please enter the month u started to analyze:200006
How's the rainfall in KH ?
Do u want to continue?
Please enter Y/N only.
How's the rainfall in KH ?
Do u want to continue?
Please enter Y/N only.
How's the rainfall in KH ?
Do u want to continue?
Please enter Y/N only.
How's the rainfall in KH ?
Do u want to continue?
Please enter Y/N only.
How's the rainfall in KH ?
Do u want to continue?
Please enter Y/N only.
How's the rainfall in KH ?
Do u want to continue?
Please enter Y/N only.
July, 2000 -January, 2001 Rain Report for KHCounty
Total rainfall in this period: 1258 inches
Average monthly rainfall: 209.667 inches
The least rain fell in August, 2000 with 10 inches
The most rain fell in November, 2000 with 941 inches
PS C:\Users\User\OneDrive\作業\C++HW5>
```

#### 5. Drink Machine Simulator

```
3.cpp 3.cpp €
              #include <iostream>
      #include <sstream>
      #include <iomanip>
      using namespace std;
      class Vendingmachine{
          private:
         double sum;
          struct {
             string drink;
             double cost;
             int numInmachine;
          } vendingmachine[5];
 12
          double inputMoney(int drinkIndx){
              double money = -1;
              string sin;
             while(money < 0){
                 cout<<"Please input money."<<endl;</pre>
                 getline(cin,sin);
                 stringstream ss(sin);
                 if(ss >> money ) {
                     char ischar;
                     if (!(ss >> ischar)){
                         if(money>0){
 25
                            break;
```

```
© 5.cpp
cout<<"You should input nonnegative number.\n"<<endl;</pre>
               return money;
           void dailyReport(){
               cout<<endl
                   <<le>t<<setw(20)<<"Drink Name"</li>
                   <<left<<setw(22)<<"Number in machine"<<endl;</pre>
               for(int i=0; i<5; i++){
                   cout<<left<<setw(20)<<this->vendingmachine[i].drink
                       <<left<<setw(22)<<this->vendingmachine[i].numInmachine<<"\n";
               cout<<endl;
               cout<<"!!$ Money made today is : "<<fixed<<setprecision(2)<<this->sum<<"$. $!!"<<er</pre>
 43
 44
           }
           public:
           Vendingmachine(){
               this->vendingmachine[0].drink = "Cola";
               this->vendingmachine[1].drink = "Root beer";
               this->vendingmachine[2].drink = "Orange soda";
               this->vendingmachine[3].drink = "Grape soda";
               this->vendingmachine[4].drink = "Bottled water";
             for(int i=0; i<5; i++){
53
                 this->vendingmachine[i].cost = 1.00;
54
                 this->vendingmachine[i].numInmachine = 20;
             this->vendingmachine[4].cost = 1.50;
             this->sum = 0;
         ~Vendingmachine(){
             dailyReport();
         void displayChoices(){
             cout<<left<<setw(20)<<"Drink Name"</pre>
                 <<le>t<<setw(15)<<"Cost"</li>
                 <<left<<setw(15)<<"Number in machine\n";</pre>
             for(int i=0; i<5; i++){
                 cout<<left<<setw(20)<<this->vendingmachine[i].drink
                     <<left<<setw(22)<<fixed<<setprecision(2)<<this->vendingmachine[i].cost
                     <<left<<setw(15)<<this->vendingmachine[i].numInmachine<<"\n";
         void buyDrink(){
             string sin;
             bool cont=1;
```

```
int i;
              while(cont){
78
                   cout<<"Which drink do u want to buy?";</pre>
                   getline(cin,sin);
                   for(i=0; i<5; i++){
                       if (vendingmachine[i].drink == sin){
                            cont=0;
82
                            break;
                       }
85
                   if (cont) cout<<"Please enter drinks on the menu.\n";
              double money = inputMoney(i);
              if( money < vendingmachine[i].cost){</pre>
                   cout<<"Your money isn't enough. QQ"<<endl;</pre>
                   cout<<"Return money: "<< money<<endl;</pre>
              else {
                   if( this->vendingmachine[i].numInmachine <= 0 ){</pre>
                       cout<<vendingmachine[i].drink<<" Sold out !!!"<<endl;</pre>
                   else {
                       cout<<"Here is ur bevarage : "<<vendingmachine[i].drink<<endl;</pre>
```

```
this->vendingmachine[i].numInmachine --;
                       this ->sum += this->vendingmachine[i].cost;
                       cout<<"Return money: "<< money-this->vendingmachine[i].cost<<endl;</pre>
               cout<<endl;</pre>
      };
      int main(int argv,char* argc[]){
           bool cont=1;
           Vendingmachine vendingmachine;
           string sin;
           while(true){
               vendingmachine.displayChoices();
                   cout<<"Do u want to buy a drink? (Y/N)";</pre>
                   getline(cin,sin);
                   if(sin[0]=='Y') cont =1;
                   else cont = 0;
               }while(sin.size()>1 || (sin[0] != 'Y' && sin[0] != 'N'));
               if( cont==0 ) break;
               vendingmachine.buyDrink();
120
           return 0;
122
```

```
PS C:\Users\User\OneDrive\作業\C++HW5> ./6.exe
Bin description
                    Bin Quantity
0.Turkey
                       0
1.Chocolate
                       0
 2.Egg
                       0
 3.Yoyo
                       0
4.ChickenBreast
                       0
 5.Gummy Bear
                       0
 6.Almond
                       0
 7.Cookie
                       0
8.Spaghetti
                       0
What do U want to do?(Add/Remove/Quit)
Which one do U want to add?(number)
How many?
10
What do U want to do?(Add/Remove/Quit)
Which one do U want to remove?(number)
1
How many?
0
Wrong Quantity or Index
What do U want to do?(Add/Remove/Quit)
Quit
Bin description
                    Bin Quantity
0.Turkey
                       0
                       0
1.Chocolate
 2.Egg
                       0
3.Yoyo
                       10
4.ChickenBreast
                       0
 5.Gummy Bear
                       0
6.Almond
                       0
7.Cookie
                       0
8.Spaghetti
                       0
PS C:\Users\User\OneDrive\作業\C++HW5> []
```

```
#include <iostream>
     #include <fstream>
     #include <sstream>
     #include <iomanip>
     #include <vector>
     using namespace std;
     class TicketManager{
         private:
              struct
11
                  int price;
12
                  bool isSold;
              }seatStructures[15][30];
13
14
15
         public:
16
             TicketManager(){
                  fstream seatAvailability, seatPrices;
                  seatAvailability.open("SeatAvailability.dat",ios::in);
18
                  seatPrices.open("SeatPrices.dat",ios::in);
19
                  int price;
20
                  char availability;
21
22
                  for(int i = 0; i<15; ++i){
23
24
                      seatPrices >> price;
25
                      for(int j = 0; j < 30; ++j){
                          seatAvailability >> availability;
26
```

```
C: > Users > User > AppData > Local > Temp > Rar$Dla2104.41179 > ♥ HW5-7.cpp > ...
                             this->seatStructures[i][j].price = price;
                             this->seatStructures[i][j].isSold = (availability == '*');
 28
                        }
                    }
                    seatAvailability.close();
                    seatPrices.close();
                ~TicketManager(){
                    fstream seatAvailability;
                    seatAvailability.open("SeatAvailability.dat",ios::out);
                    for(int i = 0; i<15; ++i){
                        for(int j = 0; j < 30; ++j){
                             if(this->seatStructures[i][j].isSold){
                                 seatAvailability<<'*';
                             } else {
                                 seatAvailability<<'#';</pre>
 45
                        seatAvailability<<endl;</pre>
                    seatAvailability.close();
                }
 52
```

```
C: > Users > User > AppData > Local > Temp > Rar$DIa2104.41179 > 🚱 HW5-7.cpp > ...
               string getSeatChart(){
                   stringstream ss;
                   string temp;
                   string ret = "";
                   ret =
                                                                    \n";
                                                  Seats
                   ret += "
                                    123456789012345678901234567890\n";
                   for(int i = 0; i < 15; ++i){
                       ss<<i;
                       ss>>temp;
                       ss.clear();
64
                       ret += "Row ";
                       if(i<10) ret += " " + temp + " ";
                               ret += temp + " ";
                       else
67
                       for(int j = 0; j < 30; ++j){
                            if(this->seatStructures[i][j].isSold){
                                ret += "*";
70
                            } else {
                                ret += "#";
                       ret += "\n";
76
78
                   return ret;
```

```
string tickRequest(vector<pair<int,int> > seats){
    stringstream ss;
    string stemp;
    bool errorLocation = false;
    string ret = "Your Seats:";
    for(int i = 0; i<seats.size(); ++i){</pre>
        if( (seats[i].first < 0 || seats[i].first >= 15 || seats[i].second < 0 || seats[i].second >=30 ) ||
            (this->seatStructures[seats[i].first][seats[i].second].isSold) ){
            errorLocation = true;
            ss << seats[i].first;</pre>
            ss >> stemp;
            ss.clear();
            ret += "(" + stemp;
            ss << seats[i].second;</pre>
            ss >> stemp;
            ss.clear();
            ret += "," + stemp + ") ";
            cost += this->seatStructures[seats[i].first][seats[i].second].price;
```

```
if(errorLocation){
                        return "Error LOcation\n";
110
                   } else{
111
                       ss << cost;
                       ss >> stemp;
112
                       ss.clear();
113
                       ret += "\nTotal Cost:" + stemp + "\n";
114
                       return ret;
116
                   }
117
118
                   return "";
119
120
121
               string tickPurchase(vector<pair<int,int> > seats, int pay){
122
123
                   stringstream ss;
124
                   string stemp;
125
126
                   int cost = 0;
                   string ret = "Your Seats:";
                   for(int i = 0; i<seats.size(); ++i){
128
                       ss << seats[i].first;</pre>
129
                       ss >> stemp;
130
                       ss.clear();
```

```
ret += "(" + stemp;
        ss << seats[i].second;</pre>
        ss >> stemp;
        ss.clear();
        ret += "," + stemp + ") ";
        cost += this->seatStructures[seats[i].first][seats[i].second].price;
    if(cost > pay){
        return "Insufficient pay!!!!\n";
    } else{
        for(int i = 0; i<seats.size(); ++i) {</pre>
            this->seatStructures[seats[i].first][seats[i].second].isSold = true;
        ret += "\nSuccessfully paid.\n";
        return ret;
string report(){
    stringstream ss;
    string temp;
    string ret = "";
```

```
int soldNum = 0;
            int cllectMoney = 0;
                for(int j = 0; j < 30; ++j){
   if(this->seatStructures[i][j].isSold){
                         ++soldNum;
                        cllectMoney += this->seatStructures[i][j].price;
            ret = "Number of sold seat:
            ss << soldNum;
            ss >> temp;
            ss.clear();
            ret += temp;
            ret = "Number of available seat:";
            ss << ((15*30)-soldNum);
            ss >> temp;
            ss.clear();
            ret += temp;
            ret += "\n";
             ret = "Collected Money:
             ss << cllectMoney;</pre>
             ss >> temp;
             ss.clear();
             ret += temp;
             ret += "\n";
             return ret;
int main(int argc,char* argv[]){
    TicketManager ticketManager;
    bool cont = true;
    while(cont){
         int select = 0;
```

<<setfill('=')<<setw(15)<<"Option"<<setw(15)<<"\n"
<<" 0 : Display the seating chart "<<endl

cout<<end1

```
<<"
                                 Request tickets
                                                             "<<endl
                    <<"
                                 print sales report
                                                             "<<endl
                    <<" 3 :
                                                             "<<endl;
                                 EXIT
210
               cin>>select;
211
               if(select == 0){
                    cout<<ticketManager.getSeatChart();</pre>
212
               } else if(select == 1){
213
                    vector<pair<int,int> > seats;
215
                    bool cont = true;
                    while(cont){
216
                        int setI,setJ;
217
218
                        char c;
219
                        cout<<"Which seat do U want to buy?(example: 10 5)\n";</pre>
                        cout<<"Follow the format plz\n";</pre>
                        cin>>setI;
                        cin>>setJ;
                        pair<int, int> seat(setI,setJ);
                        seats.push back(seat);
226
228
                        cout<<"More seat?(Y/N)\n";</pre>
                        cin>>c;
                        if(c == 'Y') cont = true;
230
231
                        else cont = false;
```

```
C: > Users > User > AppData > Local > Temp > Rar$Dla2104.41179 > 😉 HW5-7.cpp > ધ TicketManager > 😚 tickPurchase(vector<pair<int,in
                     string retMsg;
                     retMsg = ticketManager.tickRequest(seats);
                     cout << retMsg;</pre>
                     if(retMsg != "Error LOcation\n"){
                         char purchase;
                         cout << "Are you sure to purchase?(Y/N) \n";</pre>
                         cin>>purchase;
                         if(purchase == 'Y'){
                              int pay;
                              cout << "Pay Now(input money)!!!!\n";</pre>
                              cin >> pay;
                              cout << ticketManager.tickPurchase(seats, pay);</pre>
                         } else {
                              cout << "Ok! Fine!" << endl;</pre>
                     }
                } else if( select == 2) {
                     cout<<ticketManager.report();</pre>
                } else if( select == 3){
                     cont = false;
                } else{
                     cout<<"Wrong Input!"<<endl;</pre>
```

```
PS D:\Wen homework> ./HW5-7.exe
-----Option-----
  Display the seating chart
1:
  Request tickets
2:
  print sales report
  EXIT
3:
0
      Seats
  123456789012345678901234567890
Row
-----Option-----
0:
  Display the seating chart
  Request tickets
1:
  print sales report
2:
3:
  EXIT
```