|  |  |  |
| --- | --- | --- |
| Student | | |
| Input | Process | Output |
| 1. The students scores | 1. Input the test scores as arrarys 2. Sorts the test scores | The score ranges and the number of students |

A screenshot of a computer

Description automatically generated with medium confidence

C:\Users\sarga\CLionProjects\students\cmake-build-debug\students.exe

Number of scores in ranges:

0 - 24: 1

25 - 49: 2

50 - 74: 0

75 - 99: 6

100 - 124: 1

125 - 149: 3

150 - 174: 5

175 - 200: 7

Process finished with exit code 0

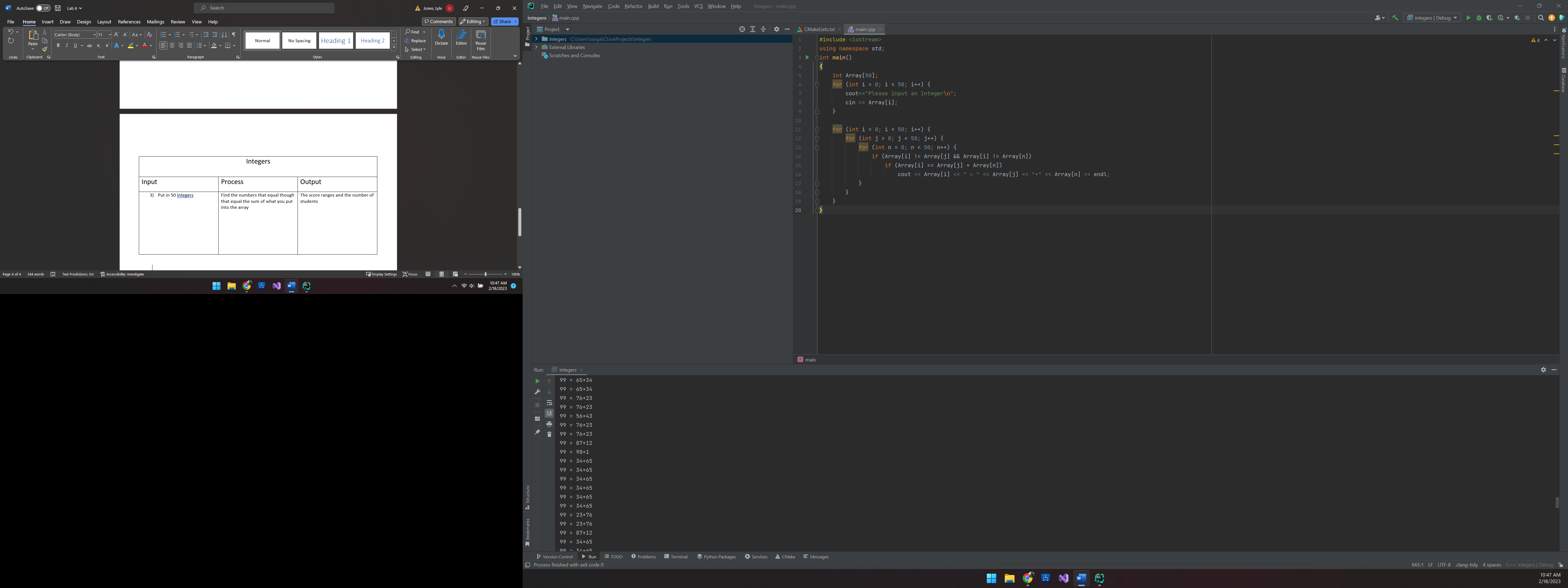
#include<iostream>  
  
using namespace std;  
  
int main()  
{  
 int Scores [25]={76,89,150,135,200,76,12,100,150,28,  
 178,189,167,200,175,150,87,99,129,  
 149,176,200,87,35,157};  
  
 int Score\_Ranges[8]={0,0,0,0,0,0,0,0};  
  
 for(int i=0;i<25;i++)  
 {  
 if(Scores [i] >=0&&Scores [i] <=24)  
 Score\_Ranges [0]++;  
 else if(Scores [i] >=25&& Scores [i]<=49)  
 Score\_Ranges [1]++;  
 else if(Scores [i]>=50&&Scores [i]<=74)  
 Score\_Ranges [2]++;  
 else if(Scores [i]>=75&&Scores [i]<=99)  
 Score\_Ranges [3]++;  
 else if(Scores [i]>=100&&Scores [i]<=124)  
 Score\_Ranges [4]++;  
 else if(Scores [i]>=125&&Scores [i]<=149)  
 Score\_Ranges [5]++;  
 else if(Scores [i]>=150&&Scores [i]<=174)  
 Score\_Ranges [6]++;  
 else if(Scores [i]>=175&&Scores [i]<=200)  
 Score\_Ranges [7]++;  
 }  
 cout<<"Number of scores in ranges:"  
 <<"\n0 - 24: \t"<<Score\_Ranges [0]  
 <<"\n25 - 49:\t"<<Score\_Ranges [1]  
 <<"\n50 - 74:\t"<<Score\_Ranges [2]  
 <<"\n75 - 99:\t"<<Score\_Ranges [3]  
 <<"\n100 - 124:\t"<<Score\_Ranges [4]  
 <<"\n125 - 149:\t"<<Score\_Ranges [5]  
 <<"\n150 - 174:\t"<<Score\_Ranges [6]  
 <<"\n175 - 200:\t"<<Score\_Ranges [7];  
 return 0;  
   
}

|  |  |  |
| --- | --- | --- |
| Marathon | | |
| Input | Process | Output |
| Put the number of miles ran | Average the number of miles per runner | Show the average per runner |

#include <iostream>  
using namespace std;  
int main()  
{  
const int row =5, colm=7;  
 double sum=0 , average ,Miles;  
 string Names[row] = { "Jason","Samantha","Ravi","Sheila","Ankit" };  
 double milesDay1,milesDay2,milesDay3,milesDay4,milesDay5,milesDay6,milesDay7,RunnerName;  
 double Miles\_Ran[row][colm];/\*={{milesDay1,milesDay2,milesDay3,milesDay4,milesDay5,milesDay6,milesDay7},  
 {milesDay1,milesDay2,milesDay3,milesDay4,milesDay5,milesDay6,milesDay7},  
 {milesDay1,milesDay2,milesDay3,milesDay4,milesDay5,milesDay6,milesDay7},  
 {milesDay1,milesDay2,milesDay3,milesDay4,milesDay5,milesDay6,milesDay7},  
 {milesDay1,milesDay2,milesDay3,milesDay4,milesDay5,milesDay6,milesDay7}};\*/  
  
 cout<<"How many miles did 1st runner this week?";  
 for (int i = 0; i <Miles\_Ran[0][row]; ++i) {  
 for (int j = 0; j < Miles\_Ran[0][row]; ++j) {  
 cin >> Miles\_Ran[0][row];  
 }  
 }  
 cout<<"How many miles did 2st runner this week?";  
 for (int i = 0; i <Miles\_Ran[1][7] ; ++i) {  
 for (int j = 0; j < Miles\_Ran[1][7]; ++j) {  
 cin >> Miles\_Ran[1][7];  
 }  
 cin>>Miles\_Ran[1][7];  
 }  
 cout<<"How many miles did 3st runner this week?";  
 for (int i = 0; i <Miles\_Ran[2][7] ; ++i) {  
 for (int j = 0; j < Miles\_Ran[2][7]; ++j) {  
 cin >> Miles\_Ran[2][7];  
 }  
 cin>>Miles\_Ran[2][7];  
 }  
 cout<<"How many miles did 4st runner this week?";  
 for (int i = 0; i <Miles\_Ran[3][7] ; ++i) {  
 for (int j = 0; j < Miles\_Ran[3][7]; ++j) {  
 cin >> Miles\_Ran[3][7];  
 }  
 cin>>Miles\_Ran[3][7];  
 }  
 cout<<"How many miles did 5st runner this week?";  
 for (int i = 0; i <Miles\_Ran[4][7] ; ++i) {  
 for (int j = 0; j < Miles\_Ran[4][7]; ++j) {  
 cin >> Miles\_Ran[4][7];  
 }  
 cin>>Miles\_Ran[4][7];  
 }  
  
 for (int i = 0; i < Miles\_Ran[0][7]; ++i) {  
 sum+=Miles\_Ran[0][7];  
 cout<<sum<<" is total miles \n ";  
 average=sum/7;  
 cout<<average<< " is average miles";  
 }  
 for (int i = 0; i < Miles\_Ran[1][7]; ++i) {  
 sum+=Miles\_Ran[1][7];  
 cout<<sum<<" is total miles \n ";  
 average=sum/7;  
 cout<<average<< " is average miles";  
 }  
  
 for (int i = 0; i < Miles\_Ran[2][7]; ++i) {  
 sum+=Miles\_Ran[2][7];  
 cout<<sum<<" is total miles \n ";  
 average=sum/7;  
 cout<<average<< " is average miles";  
 }  
  
 for (int i = 0; i < Miles\_Ran[3][7]; ++i) {  
 sum+=Miles\_Ran[3][7];  
 cout<<sum<<" is total miles \n ";  
 average=sum/7;  
 cout<<average<< " is average miles";  
 }  
 for (int i = 0; i < Miles\_Ran[4][7]; ++i) {  
 sum+=Miles\_Ran[4][7];  
 cout<<sum<<" is total miles \n ";  
 average=sum/7;  
 cout<<average<< " is average miles";  
 }  
  
  
 return 0;  
 }

Code isn’t working right??

|  |  |  |
| --- | --- | --- |
| Integers | | |
| Input | Process | Output |
| 1. Put in 50 integers | Find the numbers that equal though that equal the sum of what you put into the array | Shows the integers that make the sum of what you input |



Please input an Integer

21

Please input an Integer

12

Please input an Integer

43

Please input an Integer

34

Please input an Integer

54

Please input an Integer

45

Please input an Integer

65

Please input an Integer

65

Please input an Integer

76

Please input an Integer

56

Please input an Integer

76

Please input an Integer

87

Please input an Integer

98

Please input an Integer

34

Please input an Integer

34

Please input an Integer

34

Please input an Integer

23

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23

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22

Please input an Integer

32

Please input an Integer

1

Please input an Integer

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46 = 43+3

46 = 34+12

46 = 45+1

46 = 34+12

46 = 34+12

46 = 34+12

46 = 23+23

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46 = 34+12

46 = 23+23

46 = 23+23

46 = 1+45

46 = 1+45

46 = 3+43

46 = 10+36

46 = 36+10

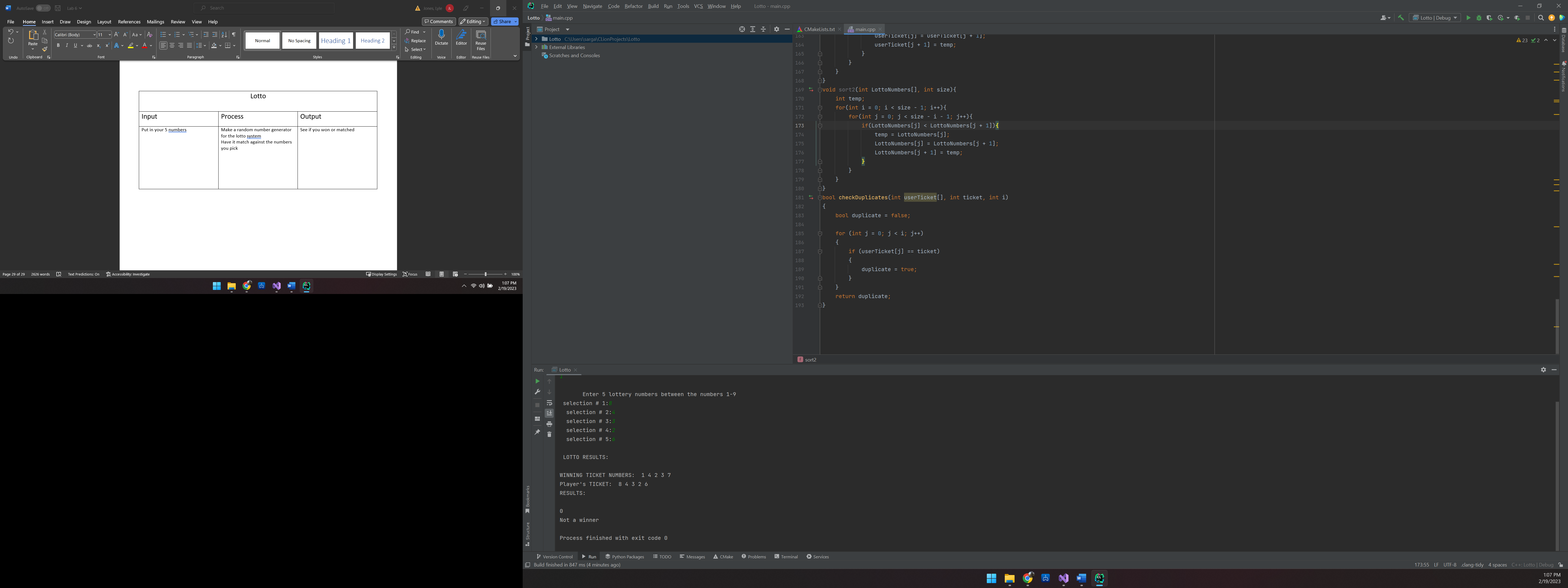
46 = 34+12

46 = 45+1

#include <iostream>  
using namespace std;  
int main()  
{  
 int Array[50];  
 for (int i = 0; i < 50; i++) {  
 cout<<"Please input an Integer\n";  
 cin >> Array[i];  
 }  
  
 for (int i = 0; i < 50; i++) {  
 for (int j = 0; j < 50; j++) {  
 for (int n = 0; n < 50; n++) {  
 if (Array[i] != Array[j] && Array[i] != Array[n])  
 if (Array[i] == Array[j] + Array[n])  
 cout << Array[i] << " = " << Array[j] << "+" << Array[n] << endl;  
 }  
 }  
 }  
return 0;

}

|  |  |  |
| --- | --- | --- |
| Lotto | | |
| Input | Process | Output |
| Put in your 5 numbers | Make a random number generator for the lotto system  Have it match against the numbers you pick | See if you won or matched |

 Enter 5 lottery numbers between the numbers 1-9

selection # 1:8

selection # 2:4

selection # 3:3

selection # 4:2

selection # 5:6

LOTTO RESULTS:

WINNING TICKET NUMBERS: 1 4 2 3 7

Player's TICKET: 8 4 3 2 6

RESULTS:

0

Not a winner

#include <iostream>  
#include <ctime>  
#include <cstdlib>  
#include <iomanip>  
  
using namespace std;  
  
void getuserTicket(int userTicket[], int);  
void getwinningNumbers(int LottoNumbers[], int);  
void results( int userTicket[], int LottoNumbers[], int size);  
void playerMenu();  
int checkMatches(int userTicket[], int LottoNumbers[], int size);  
bool checkDuplicates(int userTicket[],int size , int i );  
void sort(int userTicket[], int size);  
void sort2(int LottoNumbers[], int size);  
int main()  
{  
 srand((unsigned int)time(NULL));  
  
 const int num = 5;  
 int userTicket [num]; // array holds user picked numbers  
 int LottoNumbers [num]; // array holds random winning numbers  
 int matchingNumbers = 0;  
  
 char choice;  
  
 playerMenu();  
 cin >> choice;  
 cout << endl;  
 if (choice == '1')  
 {  
  
 getuserTicket(userTicket, num);  
 getwinningNumbers(LottoNumbers, num);  
 cout << endl;  
 void sort(int userTicket[], int size);  
 void sort2(int LottoNumbers[], int size);  
 results( userTicket, LottoNumbers, num);  
  
 }  
 else if (choice == 'q' || choice == 'Q')  
 {  
 cout << "You have chosen to quit the program" << endl;  
 }  
 else if (choice != '1' || choice != 'q' || choice != 'Q')  
 {  
 cout << "Invalid selection" << endl;  
 }  
  
 return 0;  
}  
  
  
void playerMenu()  
{  
 cout << "1) Play Lotto" << endl  
 << "q) Quit Program" << endl;  
}  
  
void getuserTicket(int userTicket[], int size)  
{  
 cout << setw(55) << "Enter 5 lottery numbers between the numbers 1-9 " << endl;  
  
 for (int i = 0; i < size; i++)  
 {  
 cout << " selection # " << i + 1 << ": ";  
 cin >> userTicket[i];  
 while (checkDuplicates (userTicket, userTicket[i], i) || userTicket[i] < 1 || userTicket[i] > 9)  
 {  
 if (userTicket[i] < 1 || userTicket[i] > 9)  
 {  
 cout << "Enter a number between 1 and 9 ";  
 cin >> userTicket[i];  
 }  
 if (checkDuplicates(userTicket, userTicket[i], i))  
 {  
 cout << "You have already entered that number, please choose a different number: " << endl;  
 cin >> userTicket[i];  
 cout << endl;  
 }  
 }  
 }  
}  
  
void getwinningNumbers(int LottoNumbers[], int size)  
{  
 srand(time(0));  
 for (int i = 0; i < size; i++)  
 {  
 LottoNumbers[i] = (rand() % 9+1);  
  
 while (checkDuplicates(LottoNumbers, LottoNumbers[i], i))  
 {  
 LottoNumbers[i] = (rand() % 9+1 );  
 }  
 }  
}  
  
void results(int userTicket[], int LottoNumbers[], int size)  
{  
 int count = checkMatches(userTicket, LottoNumbers, size);  
 cout << "" << " LOTTO RESULTS:" << endl<< endl;  
  
 cout << "WINNING TICKET NUMBERS: ";  
 for (int i = 0; i < size; i++)  
 {  
 cout << " " << LottoNumbers[i];  
 }  
 cout << endl;  
 cout << "Player's TICKET: ";  
 for (int i = 0; i < size; i++)  
 {  
 cout << " " << userTicket[i];  
 }  
 cout << endl<< "RESULTS:" << endl<< endl<< count << endl;  
  
 switch (count)  
 {  
 case 0:  
 cout<< "Not a winner";  
 break;  
 case 1:  
 cout << "1 matched";  
 break;  
 case 2:  
 cout << "2 matched";  
 break;  
 case 3:  
 cout << "3 matched";  
 break;  
 case 4:  
 cout << "4 matched ";  
 break;  
 case 5:  
 cout << "Winner!";  
 break;  
  
 }  
 cout << endl;  
}  
int checkMatches(int userTicket[], int LottoNumbers[], int size )  
{  
 int count = 0,L;  
  
 for (int i = 0; i < size; i++)  
 {  
 int temp = userTicket[i];  
  
 if (temp == LottoNumbers[L])  
 {  
 count++;  
 }  
 }  
 return count;  
}  
  
void sort(int userTicket[], int size){  
 int temp;  
 for(int i = 0; i < size - 1; i++){  
 for(int j = 0; j < size - i - 1; j++){  
 if(userTicket[j] < userTicket[j + 1]){  
 temp = userTicket[j];  
 userTicket[j] = userTicket[j + 1];  
 userTicket[j + 1] = temp;  
 }  
 }  
 }  
}  
void sort2(int LottoNumbers[], int size){  
 int temp;  
 for(int i = 0; i < size - 1; i++){  
 for(int j = 0; j < size - i - 1; j++){  
 if(LottoNumbers[j] < LottoNumbers[j + 1]){  
 temp = LottoNumbers[j];  
 LottoNumbers[j] = LottoNumbers[j + 1];  
 LottoNumbers[j + 1] = temp;  
 }  
 }  
 }  
}  
bool checkDuplicates(int userTicket[], int ticket, int i)  
{  
 bool duplicate = false;  
  
 for (int j = 0; j < i; j++)  
 {  
 if (userTicket[j] == ticket)  
 {  
 duplicate = true;  
 }  
 }  
 return duplicate;  
}

I need to be able to get the sort function to work and the it would work the right way