Quiz 2 – Chapters 8-12 and Notes

# Multiple Choice:

1. C
2. D
3. A
4. C
5. A
6. C
7. D
8. D
9. B
10. A
11. C
12. B
13. B
14. B
15. B
16. A
17. B
18. D
19. D
20. A

# Short Answer:

1. The statement is below:

int number = 0;

string name = "Hello";

number = name.length();

1. Here is the code snippet.

string first = "First";

string middle = "Middle";

string last = "Last";

string space = " ";

string full = "";

full = first + space + middle + space + last;

1. The stamement is:

cout << oneBoard.dimensions.width << endl;

1. Using the formula:
2. The output is:

50 50

35 50

# Problem 26.

//ShowSort.cpp

#include <iostream>

#include <iomanip>

#include <cctype>

using namespace std;

void selectionsort(int[], int, bool);

void showarray(const int[], int);

int main()

{

int size, input, count = 0;

char choice;

bool choice2;

const int defaultsize = 10;

int value[defaultsize];

cout << "Enter the number of values in the array [integer]: ";

cin >> size;

do {

cout << "Enter element value " << count + 1 << ": ";

cin >> input;

value[count] = input; //1

count++;

}

while (count < size);

do {

cout << "\nEnter sorting order [A for ascending, D for descending]: ";

cin >> choice;

cout << endl;

switch (toupper(choice)) {

case 'A':

cout << "\nThe unsorted values are\n";

showarray(value, size); //2

cout << endl;

selectionsort(value, size, true);

choice2 = false;

break;

case 'D':

cout << "\nThe unsorted values are\n";

showarray(value, size);

cout << endl;

selectionsort(value, size, false); //3

choice2 = false;

break;

default:

cout << "\nPlease use correct letter\n";

choice2 = true;

break;

}

}

while (choice2);

cout << "\nThe sorted values are\n";

showarray(value, size); //show the final result from sort

cout << endl;

return 0;

}

void selectionsort(int array[], int size, bool choice) {

int startscan, minindex, minvalue;

for (startscan = 0; startscan < (size - 1); startscan++) {

minindex = startscan; //4

minvalue = array[startscan];

for (int index = startscan + 1; index < size; index++) {

if (choice == true) {

if (array[index] < minvalue) {

minvalue = array[index];

minindex = index;

}

}

if (choice == false) {

if (array[index] > minvalue) { //5

minvalue = array[index];

minindex = index;

}

}

}

array[minindex] = array[startscan];

array[startscan] = minvalue;

cout << "Pass " << startscan + 1 << ": ";

showarray(array, size);

}

}

void showarray(const int array[], int size) {

for (int count = 0; count < size; count++)

cout << array[count] << " ";

cout << endl;

}