CHAPTER 11

Checkpoint:

11.1

struct Account{

string accountNumber;

double accountBalance;

double interestRate;

double averageMonthlyBalance;

};

11.2

int main(){

Account acc = {“ACZ42137-B12-7”, 4512.59, 0.04, 4217.07};

11.3

#include <iostream>

using namespace std;

struct Movie{

string name;

string director;

string producer;

int year;

};

int main(){

Movie movie;

cout << “Enter the following data about your\n”;

cout << “favorite movie.\n”;

cout << “Name: “;

getline(cin, movie.name);

cout << “Director: “;

getline(cin, movie.director);

cout << “Producer: “;

getline(cin, movie.producer);

cout << “Year of release: “;

getline(cin, movie.year);

cout << “Here is data on your favorite movie. \n”;

cout << movie.name << endl;

cout << movie.director << endl;

cout << movie.producer << endl;

cout << movie.year << endl;

struct Product{ (for 11.4 – 11.7)

string description;

int partNum;

double cost;

};

11.4

int main(){

const int PRODUCT\_SIZE = 100;

Product prod[PRODUCT\_SIZE];

11.5

for(int i = 0; i < PRODUCT\_SIZE; i++){

prod.description = “ “;

prod.partNum = 0;

prod.cost = 0;

11.6

Product prod[PRODUCT\_SIZE] = {

{“Clay Hammer”, 547, 8.29}

};

11.7

for(int i = 0; i < PRODUCT\_SIZE; i++){

cout << prod.description << endl;

cout << prod.partNum << endl;

cout << prod.cost << endl;

11.8

struct Measurement{

int miles;

long int meters;

};

11.9

struct Destination{

string city;

Measurement distance;

};

11.10

Review Questions

Short answers:

1. Data types that are defined as a basic part of the programming language
2. No
3. Arrays are only able to hold values of one data type while Structures are able to hold values of more than one data type
4. a) Point center;

b) center.x = 12;

c) center.y = 7;

d) cout << center.x << endl;

cout << center.y << endl;

1. a) FullName info;

b) info.firstName = (your first name);

info.middleName = (your middlename);

info.lastName = (your last name);

c) cout << info.firstName << “ “ << info.middleName << “ “ << info.lastName << endl;

1. a) Canton

b) Haywood

c) 9478

d) no value (?)

1. a) r = new Rectangle;

b) r -> length = 14;

r -> width = 10;

1. a
2. a
3. 0 1 2
4. a) valid

b) invalid

c) valid

d) invalid

e) invalid

f) valid

g) valid

Fill in the blanks

1. defined
2. tag
3. members
4. ; (semicolon)
5. Structure name (?)
6. Dot
7. Car c = { “Ford”, “Mustang”, 1968, 20000 }
8. Car c[25];
9. Car c[35] = {

{“Ford”, “Taurus”, 1997, 21000},

{“Honda”, “Accord”, 1992, 11000},

{“Lamborghini”, “Countach”, 1997, 200000},

}

1. for(int i = 0; i < 3; i++){

cout << c.carMake[i] << endl;

cout << c.carModel[i] << endl;

cout << c.yearModel[i] << endl;

cout << c.cost[i] << endl;

}

1. struct TempScale{

double fahrenheit;

double centigrade;

};

struct Reading{

int windSpeed;

double humidity;

TempScale temperature;

};

int main(){

Reading r;

1. Reading r = {37, 0.32, 32, 0}; (?)

True or false

1. True
2. True
3. False
4. False
5. False
6. False
7. True
8. True
9. False
10. True
11. True
12. True
13. True

Find the errors

1. Struct has no name
2. Struct has no semi-colon at the end bracket
3. The structure variable is not defined
4. vals-nya ga pake vals.a dsb buat print outputnya (you get the idea)
5. there are no braces before Smith and after Orley
6. int c is not defined in main
7. the value is declared in the struct (?)

More answers will be added as soon as I find them