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Week 2 Exercises

2) Suppose x and y are int variables and ch is a char variable. Consider the following input: 5 28 36

What value is assigned to x, y and ch after each of the following statements executes?

a) cin >> x >> y >> ch;

x = 5, y = 28, ch = 3

b) cin >> ch >> x >> y;

x = 28, y = 36, ch = 5

c) cin >> x >> ch >> y;

x = 5, y = 8, ch = 2

d) cin >> x >> y; cin.get(ch);

x = 5, y = 28, ch = (blank space between 28 and 36)

4) Suppose x and y are int variables and ch is a char variable. Assume the following input data:

13 28 D

14 E 98

A B 56

What value is assigned to x, y, and cha after each of the following statements executes?

a) cin >> x >> y;

cin.ignore(50, ‘\n’);

cin >> ch;

x = 13, y = 28, ch = 1

b) cin >> x;

cin.ognore(50, ‘\n’);

cin >> y;

cin.ignore(50, ‘\n’);

cin.get(ch);

x = 13, y = 14, ch = A

c) cin >> y;

cin.ignore(50, ‘\n’);

cin >> x >> ch;

x = 14, y = 13, ch = E

d) cin.get(ch);

cin.ignore(50, ‘\n’);

cin >> x;

cin.ignore(50, ‘\E’);

cin >> y;

x = 14, y = 98, ch = 1

6) Suppose that x and y are int variables, z is a double variable, and ch is a char variable. Suppose the input statement is:

cin >> x >> y >> ch >> z;

What values are stored in x, y, z, and ch if the input is:

a) 35 62.78

x = 35, y = 62, z = 78.0, ch = .

b) 82 32A 92.6

x = 82, y = 32, z = 92.6, ch = A

c) 12 .45A 32

x = 12

8) Which header file must be included to use the function pow?

The cmath header must be included to use the function pow.

10) Write a C++ statement that uses the manipulator setfill to output a line containing 35 stars, as in the following line:

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#include <iostream>;

#include <iomanip>;

using namespace std;

int main()

{

cout << setw(36) << setfill('\*') << " " << endl;

return 0;

}