**Quiz 1 CS5008**

1 . Suppose that alpha and beta are int variables and alpha = 5 and beta = 10. After the statement alpha \*= beta; executes, \_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | alpha = 5 | **c.** | **alpha = 50** |
| b. | alpha = 10 | d. | alpha = 50.0 |

2. Suppose that sum and num are int variables and sum = 5 and num = 10. After the statement sum += num executes, \_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | sum = 0 | c. | sum = 10 |
| b. | sum = 5 | **d.** | **sum = 15** |

3. Suppose that alpha is an int variable and ch is a char variable and the input is:

17 A

What are the values after the following statements execute?

cin >> alpha;

cin >> ch;

|  |  |  |  |
| --- | --- | --- | --- |
| a. | alpha = 17, ch = ' ' | **c.** | **alpha = 17, ch = 'A'** |
| b. | alpha = 1, ch = 7 | d. | alpha = 17, ch = 'a' |

4. Suppose that ch1 and ch2 are char variables, alpha is an int variable, and the input is:

A 18

What are the values after the following statement executes?

cin.get(ch1);

cin.get(ch2);

cin >> alpha;

|  |  |
| --- | --- |
| **a.** | **ch1 = 'A', ch2 = ' ', alpha = 18** |
| b. | ch1 = 'A', ch2 = '1', alpha = 8 |
| c. | ch1 = 'A', ch2 = ' ', alpha = 1 |
| d. | ch1 = 'A', ch2 = '\n', alpha = 1 |

5. Consider the following program segment.

ifstream inFile; //Line 1

int x, y; //Line 2

... //Line 3

inFile >> x >> y; //Line 4

Which of the following statements at Line 3 can be used to open the file progdata.dat and input data from this file into x and y at Line 4?

|  |  |
| --- | --- |
| **a.** | **inFile.open("progdata.dat");** |
| b. | inFile(open,"progdata.dat"); |
| c. | open.inFile("progdata.dat"); |
| d. | open(inFile,"progdata.dat"); |

6. What is the output of the following C++ code?

int x = 35;

int y = 45;

int z;

if (x > y)

z = x + y;

else

z = y – x;

cout << x << " " << y << " " << z << endl;

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 35 45 80 | c. | 35 45 –10 |
| **b.** | **35 45 10** | d. | 35 45 0 |

7. What is the output of the following code?

char lastInitial = 'S';

switch (lastInitial)

{

case 'A':

cout << "section 1" <<endl;

break;

case 'B':

cout << "section 2" <<endl;

break;

case 'C':

cout << "section 3" <<endl;

break;

case 'D':

cout << "section 4" <<endl;

break;

default:

cout << "section 5" <<endl;

}

|  |  |  |  |
| --- | --- | --- | --- |
| a. | section 2 | c. | section 4 |
| b. | section 3 | **d.** | **section 5** |

8. Suppose sum and num are int variables, and the input is 18 25 61 6 -1. What is the output of the following code?

sum = 0;

cin >> num;

while (num != -1)

{

sum = sum + num;

cin >> num;

}

cout << sum << endl;

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 92 | **c.** | **110** |
| b. | 109 | d. | 119 |

9. Considering the statement string str = "Gone with the wind";, the output of the statement cout << str.find("the") << endl; is \_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 9 | c. | 11 |
| **b.** | **10** | d. | 12 |

10. Consider the following statements:

string str1 = "ABCDEFGHIJKLM";

string str2;

After the statement str2 = str1.substr(1,4); executes, the value of str2 is "\_\_\_\_".

|  |  |  |  |
| --- | --- | --- | --- |
| a. | ABCD | c. | BCD |
| **b.** | **BCDE** | d. | CDE |

**Question 1**

****

#include <iostream>

#include <fstream>

Using name std;

Int main() {

Int cars[10];

Int personscount, number\_of\_cars;

Int person[10];

Int max\_cars=0;

Int person\_num=0;

Int totalcars=0;

Int i=0, j=0, k=0;

Ifstream inFile;

inFile.open(“Cars.dat”);

if(!inFile)

{

Cout<< “File not found\n”;

Return 0;

}

While (inFile>>personscount>>number\_of cars){

Person[i] = personscount;

Cars[j]=number\_of\_cars;

If( cars[j]>max\_cars) {

Max\_cars= cars[j];

K=person[i];

}

Cout<<”Sales person.”<<personscount<<”sold”<<cars[j]<<”cars.”endl;

Totalcars=totalcars+cars[j];

I++;

J++;

}

Cout<<”\nSales Person” << k << “ sold maximum number of cars is “ <<max\_cars;

Cout<<”\nTotal number of cars sold in the month is:”<<totalcars<<endl;

}