Test 3 (Chapter 6)

(11/19/2021)

Duration: 40 minutes

Part A (70%, 3.5 points per question)

Please select the right answer from the following questions.

1. Consider the following line of code:

int myarray[15];

Which one of the following options is a valid line of code for displaying the eighth element of myarray?

1. cout << myarray[8];
2. cout << myarray(8);
3. cout << myarray(7);
4. cout << myarray[7];
5. Identify the correct statement for defining an integer array named numcount of five elements.
6. int numcount[4];
7. int numcount[5];
8. int numcount[];
9. int [5]numcount;
10. Which one of the following statements is an invalid initialization of an array named myarray?
11. int myarray[ ] = { 0, 1, 2, 3, 4 };
12. int myarray[5] = { 0, 1, 2, 3, 4, 5 };
13. int myarray[5] = { 0, 1, 2, 3 };
14. int myarray[4] = { 0, 1, 2, 3 };
15. Consider the following code snippet:

int ctr = 0;

int myarray[3];

for (int i = 0; i < 3; i++)

{

myarray[i] = ctr;

ctr = ctr + i;

}

cout << myarray[2];

What is the output of the code snippet?

1. 0
2. 1
3. 2
4. 3
5. Consider the following code snippet:

int marks[5] = { 35, 68, 90, 45, 67 };

for (int n = 0; n <= 5; n++)

{

cout << marks[n] << endl;

}

What is the result of executing this code snippet?

1. The code snippet does not give any output.
2. The code snippet displays all the marks stored in the array without any redundancy.
3. The code snippet has a bounds error.
4. The code snippet executes an infinite loop.
5. What is the valid range of index values for an array of size 7?
6. 0 to 7
7. 1 to 6
8. 1 to 7
9. 0 to 6
10. What is the value stored in the last element of an array named numdata with the given definition?

int numdata[3] = { 1, 2 };

1. The last element stores value 1.
2. The last element stores value 2.
3. The last element stores value 0.
4. The answer cannot be determined from the information given.
5. Which one of the following is a correct declaration for a function named passvect with the integer array num as a reference parameter, and its size in the integer parameter variable size?
6. void passvect(int[]& num, int size)
7. void passvect(int num, int size)
8. void passvect(int &num[], int size)
9. void passvect(int num[], int size)
10. Consider the following line of code for calling a function named my\_fun:

my\_fun(dataset, vardata);

Which one of the following function signatures is valid for my\_fun, where dataset is an integer array and vardata is an integer variable?

1. void my\_fun(dataset, vardata)
2. void my\_fun(int dataset[], int vardata)
3. void my\_fun(int vtdata[], vdata)
4. void my\_fun(int vdata, int vtdata[])
5. Which one of the following statements is true about passing arrays to a function?
6. By default, arrays are passed by value to a function.
7. Arrays when updated in a called function are not reflected to the calling function.
8. By default, arrays are passed by reference to a function.
9. Arrays are passed by reference using the & sign.
10. How many elements can be stored in an array of dimension 2 by 3?
11. 2
12. 3
13. 5
14. 6
15. Which one of the following statements is the correct definition for a two-dimensional array of 20 rows and 2 columns of the type integer?
16. int num[20][2];
17. int num[2][20];
18. int num[20,2];
19. int num[2,20];
20. Consider the following code snippet:

int numarray[2][3] = { { 3, 2, 3 }};

cout << numarray[0][0];

cout << numarray[1][0];

What is the output of the given code snippet?

1. 00
2. 31
3. 30
4. 03
5. Which one of the following statements is correct for displaying the value in the second row and the third column of a two-dimensional, size 3 by 4 array?
6. cout << arr[1][2];
7. cout << arr[2][3];
8. cout << arr[2][1];
9. cout << arr[3][2];
10. Identify the correct statement for defining an integer array named numarray of ten elements.
11. int numarray[9];
12. int numarray[10];
13. int numarray[];
14. int [10]numarray;
15. Which one of the following statements is an invalid initialization of an array named somearray?
16. int somearray[] = { 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 };
17. int somearray[10] = { 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 };
18. int somearray[10] = { 0, 1, 2, 3, 4, 5, 6, 7, 8 };
19. int somearray[9] = { 0, 1, 2, 3, 4, 5, 6, 7, 8 };
20. Consider the following code snippet:

int marks[3] = { 90, 45, 67 };

for (int i = 0; i <= 3; i++)

{

cout << marks[i] << endl;

}

What is the result of executing this code snippet?

1. The code snippet does not give any output.
2. The code snippet displays all the marks stored in the array without any redundancy.
3. The code snippet has a bounds error or displays redundant data.
4. The code snippet executes an infinite loop.
5. Consider the following code snippet:

const int SIZE = 5;

int data\_array[SIZE];

for (int i = 0; i < SIZE; i++)

{

data\_array[i] = 2 \* (i – 1);

}

What value is stored in position 2 of the array?

1. 0
2. 1
3. 2
4. 3
5. How many integer elements can be stored in the array myarr declared below?

int myarr[10][8];

1. 10
2. 80
3. 18
4. 72
5. What is the error in the following code snippet?

const int WORDCOUNT = 100;

string words[WORDCOUNT];

for (int i = 0; i <= WORDCOUNT; i++)

{

cout << words[i] << endl;

}

1. Cannot define an array of strings
2. Infinite loop
3. Array index out of bounds
4. Skips elements in the array