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Data de início Quarta, 29 Março 2017, 14:31

Estado Teste enviado

Data de submissão: Quarta, 29 Março 2017, 15:31

Tempo gasto 1 hora

Pergunta 1 Respondida Pontuação 1.000 Pestacar pergunta

What is the next step in using a file, after the file has been declared with the following statement?

ofstream f;

Selecione uma opção de resposta:

a. You use the file by outputting a value to it.

b. You use the file to input a variable.

c. I don't want to answer

d. You test if the file is open.

e. You open the file, and associate it with a specific file name.
```

Pergunta 2 Respondida Pontuação 1,000 P Destacar pergunta

```
Consider the following piece of code:

string name;|
unsigned int age = 0;
cout << "Insert your 'name' and 'age': "; cin >> name >> age;
cout << "Name and age: " << name << " / " << age << endl;

The user input was: "Cristiano Ronaldo 32".
Which is the output of the code?

Selecione uma opção de resposta:

a. Name and age: Cristiano / 0

b. There will be no output; the program will stop, showing an error message on the screen

c. Name and age: Cristiano Ronaldo / 32

d. I don't want to answer

e. Name and age: Cristiano / 32
```

Pergunta 3 Respondida Pontuação 1,000 P Destacar pergunta

```
Consider the following piece of code:
 void showTime(unsigned int h, unsigned int m=0)
  cout<< setw(2) << h << ":" << setw(2) << m;
 int main()
  showtime(16);
  cout << endl;
  showtime(16,25);
 Which of the following sentences about this code is TRUE?
Selecione uma opção de resposta:
o a. The output will be:
  16
   16:25

    b. It is not possible to call showTime(16) because this function has 2 parameters.

o. I don't want to answer
od. The output will be:
   16:00
   16:25
o e. The output will be:
   16:0
```

```
Pergunta 4
                       Respondida Pontuação 1,000 🔻 Destacar pergunta
  Consider the following piece of code:
    char ans;
    do
      cin >> ans;
    } while (.....);
  Complete the while statement to force the user to input either Y or N.
Selecione uma opção de resposta:
 a. while (ans != 'Y' | | ans != 'N');
 b. while (ans != 'Y' && ans != 'N');
 c. while (! (ans == "Y" && ans == "N"));
 o d. I don't want to answer
 e. while ( ans != 'Y' | | 'N'));
Pergunta 5
                       Respondida Pontuação 1,000 P Destacar pergunta
  To read the name (having more than one word) and gender ('M' or 'F')) of a person from
  the keyboard which of the following pieces of code would you choose?
 Selecione uma opção de resposta:
 a. string name;
    char gender;
    cout << "Name? "; cin>>name;
    cout << "Gender (M F)?"; cin >> gender;
 b. string name;
    char gender;
    cout << "Name? "; getline(cin, name);
    cout << "Gender (M F)?"; cin >> gender;
 c. string name;
    char gender;
    cout << "Name?"; getline(cin, name);
    cout << "Gender (M F)?"; getline(cin, gender);
 o d. string name;
    char gender;
    cout << "Name?"; cin.getline(name);
    cout << "Gender (M F)?"; cin >> gender;
 o e. I don't want to answer
Pergunta 6
                       Respondida Pontuação 1,000 🦞 Destacar pergunta
  What is written to the screen when the following piece of code is executed and the user
  input for 'radius' is 1?
    double volume, radius;
    const double PI = 3.14;
    cout << "radius ? ";
    cin >> radius; // the user input was 1
volume = 4/3 * PI * radius * radius * radius;
    cout << volume << endl;
 Selecione uma opção de resposta:
 a. 4.18667
 o b. I don't want to answer
 o c. volume endl
 O d. 3.14
 O e. 4/3 * PI * radius * radius * radius
```

Pergunta 7 Respondida Pontuação 1,000 💗 Destacar pergunta

```
What is the output of the following program?
 #include <iostream>
 #include <vector>
 #include <iomanip>
 using namespace std;
 void func1(const vector<int> &v1, vector<int> &v2)
  for (size_t i = 0; i < v1.size(); i++)
   if (v1.at(i) % 2 == 1)
     v2.push_back(v1.at(i));
 void func2(const vector<int> &v)
  for (size_t i = 0; i < v.size(); i++)
   cout << setw(2) << v.at(i);
  cout << "]";
 int main()
  vector<int> v1 = { 1, 2, 3, 4, 5 }, v2;
  func2(v1);
func1(v1, v2);
  func2(v2);
Selecione uma opção de resposta:
(iii) a.
  [12345]
  [135]
( b. [12345][]
( c. [12345][135]
(a) d. [ 1 2 3 4 5][ 1 2 3 4 5]
e. I don't want to answer
```

Pergunta 8 Respondida Pontuação 1,000 P Destacar pergunta

```
Which of the following loops is NOT EQUIVALENT to the loop below

for (int i = 1; i <= 10; i++)

cout << i;
```

Selecione uma opção de resposta:

```
a. int i = 1;
while (i <= 10)</li>
cout << i;</li>
i++;
b. for (int i = 1; i <= 10; ++i)</li>
cout << i;</li>
c. I don't want to answer
d. int i = 0;
do

i++;
cout << i;</li>
while (i <= 10);</li>
e. for (int i = 1; i <= 10; i = i +1)</li>
cout << i;</li>
cout << i;</li>
```

Pergunta 9 Respondida Pontuação 1,000 P Destacar pergunta
The expression s1.find(s2) != string::npos
Selecione uma opção de resposta: a. is true if the string "npos" is contained in s1 but is not contained in s2 b. is false if string s1 does not contain the string s2 c. is true if the string s1 does not contain the string s2 d. I don't want to answer e. is true if the string s1 contains the string s2
Pergunta 10 Respondida Pontuação 1,000 P Destacar pergunta
Which one of the following functions correctly returns the minimum of three integers that it receives as parameters? NOTE: some of the functions may produce compiling errors.
Selectione uma opção de resposta: a. int min(int n1, int n2, int n3) { if (n1 < (n2 && n3)) return n1; if (n3 < (n1 && n3)) return n2; if (n3 < (n1 && n3)) return n3; } b. int min(int n1, int n2, int n3) { int n = n1; if (n3 < n) n=n3; return n; } c. I don't want to answer d. int min(int n1, int n2, int n3) { if (n1 < n2) min = n1; else min = n2; if (n3 < min) min=n3; } e. void min(int &n1, int &n2, int &n3) { if (n1 < n2 && n1 < n3) return n1; if (n2 < n1 && n2 < n3)) return n2; if (n3 < n1) && n2 < n3) return n3; }
Pergunta 11 Respondida Pontuação 1,000 P Destacar pergunta
Which of the following is a VALID name for an identifier? Selecione uma opção de resposta: a. integral b. int c. char d. 2ndPlayer e. I don't want to answer

Pergunta 12 Respondida Pontuação 1,000 🤛 Destacar pergunta The compilation of the following code will produce a compilation error: do cout << "operation (+ -) ? "; char operation; cin >> operation; bool validOperation = (operation == '+') || (operation == '-'); } while (!validOperation); The error message is: Selecione uma opção de resposta: o a. I don't want to answer o b. 'validOperation': undeclared identifier o c. 'validOperation': invalid value o d. 'validOperation': invalid name o e. 'validOperation': invalid type Pergunta 13 Respondida Pontuação 1,000 P Destacar pergunta Consider the following array declaration: int $a[2][3] = \{ \{1,3,2\}, \{5,2,9\} \};$

The code to obtain the sum of all the elements of the array is:

Selecione uma opção de resposta:

```
a. int sum = 0;
for (int i = 0; i < 2; i++)
for (int j = 0; j < 3; j++)
sum = sum + a[i][j];</pre>
```

b. I don't want to answer

```
    c. int sum = 0;
    for (int i = 1; i <= 2; i++)</li>
    for (int j = 1; j <= 3; j++)</li>
    sum = sum + a[j][i];
    d. int sum = 0;
    for (int i = 0; i < 3; i++)</li>
    for (int j = 0; j <2; j++)</li>
```

sum = sum + a[i][j]; e. int sum = 0; for (int i = 1; i <= 3; i++) for (int j = 1; j <= 2; j++) sum = sum + a[i][j]; Pergunta 14 Respondida Pontuação 1,000 P Destacar pergunta

O d. Error: + operator can't be used with strings

e. I don't want to answer

```
Consider the following piece of code:
    void f(int a[], int nElems)
     cout << "sizeof(a) = " << sizeof(a) << endl;
     // ... processing of a[];
    int main()
    {
     int a[3] = {10,20,30};
cout << "sizeof(int) = " << sizeof(int) << " - ";
      cout << "sizeof(a) = " << sizeof(a) << " - ";
      f(a,3);
  Select the only possible output of this code.
Selecione uma opção de resposta:
 o a. I don't want to answer
 b. sizeof(int) = 4 - sizeof(a) = 12 - sizeof(a) = 12
 c. sizeof(int) = 4 - sizeof(a) = 12 - sizeof(a) = 4
 d. sizeof(int) = 4 - sizeof(a) = 3 - sizeof(a) = 3
 e. sizeof(int) = 1 - sizeof(a) = 3 - sizeof(a) = 3
Pergunta 15
                         Respondida Pontuação 1,000 🌳 Destacar pergunta
  Which include statement must be used in a program that must read some input data
  from files?
 Selecione uma opção de resposta:
 (i) a. I don't want to answer
 b. #include <filestream>
 c. #include <fstream>
 d. #include <files>
 e. #include <ifstream>
Pergunta 16
                      Respondida Pontuação 1,000 🌾 Destacar pergunta
  What is the output of the following piece of code when the user input is 111 and 222:
   string s1, s2;
   cout << "s1? "; cin >> s1;
cout << "s2? "; cin >> s2;
   cout << s1 + s2 << endl;
 Selecione uma opção de resposta:
 a. 333
 b. 111 + 222 endl
 o c. 111222
```

```
Pergunta 17
                        Respondida Pontuação 1,000 🦞 Destacar pergunta
  Consider the following piece of code:
   if (x=1)
     cout << "x is equal to 1";
    else
     cout << "x is not equal to 1";
  Which of the following sentences is FALSE about this code?
 Selecione uma opção de resposta:

    a. It will always write "x is equal to 1" to the screen

 o b. It will write to the screen "x is equal to 1" or "x is not equal to 1" depending on the value of x
 o c. It will modify the value of variable x
 d. The parenthesis in if (x=1) statement can't be removed.
 e. I don't want to answer
Pergunta 18
                        Respondida Pontuação 1,000 🌳 Destacar pergunta
  The statement cin.clear()
 Selecione uma opção de resposta:

 a. cleans the screen

 b. cleans the input buffer
 o c. I don't want to answer
 igood" so that input may proceed on that stream
 o e. cleans all the characters in the input buffer until a newline character is found
Pergunta 19
                        Respondida Pontuação 1,000 🦞 Destacar pergunta
  Consider the following declarations:
    struct Employee
     string name;
     double salary[12]; // salary during the 12 months of the year: January .. December
    vector<Employee> employee(100);
  The statement that reads from the keyboard the salary of the first employee (first
  element of the vector) in the month of December (last element of array 'salary') is
 Selecione uma opção de resposta:
 a. cin >> employee.salary[0][11];
 b. I don't want to answer
 c. cin >> employee.at(1).salary[12];
 d. cin >> employee.at(0).salary[11];

    e. cin >> employee.at(0).at(11);
```

Pergunta 20 Respondida Pontuação 1,000 🤛 Destacar pergunta Consider the following function prototype: void f1(const string &s1, string &s2); Which of the following sentences about this function is TRUE? Selecione uma opção de resposta: a. Function f1 can not modify the argument passed to s1 but can modify the argument passed to s2 b. Function f1 can not modify the arguments passed to both s1 and s2 o c. The last statement in the body of the function must be return void; d. Function f1 can modify the arguments passed to both s1 and s2, but the argument passed to s1 must be always a constant string literal e. I don't want to answer Pergunta 21 Respondida Pontuação 1,000 P Destacar pergunta Consider the following function: int countingFun() static int counter = 0; counter++: return counter: Which of the following sentences about this function is TRUE? Selecione uma opção de resposta: a. The compilation of this code will produce an error because 'counter' is a static variable, so it can not be incremented b. I don't want to answer c. The function will always return the value 1, because 'counter' is initialized with 0, every time the function is called. d. The qualifiers 'static' and 'const' have the same meaning, so one could replace 'static' with 'const' and the result would be exactly the same. e. 'counter' will be initialized only once, with value 0, and it will keep its value like a global variable; so, the return value will be 1, after the first call to the function, 2, after the second call, 3 after the third call, and so on Pergunta 22 Respondida Pontuação 1,000 🐶 Destacar pergunta Consider that the following variables have been declared int x: bool validX; and that the value of 'x' has been read from the keyboard. Variable 'validX' must be 'true' when the value of variable 'x' is in the range [0..20], 'false' otherwise. This could be accomplished with the statement: Selecione uma opção de resposta: a. if (x>=0 && x <=20) validX=true; else validX=false; b. switch (x) { case [0..20] : validX=true; break; default: validX=false; } c. I don't want to answer d. if (0 <= x <=20) validX=true; else validX=false;</p> e. if (0 <= x & x <=20) validX=true else validX=false;

Pergunta 23 Respondida Pontuação 1,000 🌵 Destacar pergunta
Function overloading is
Selecione uma opção de resposta: a. what happens when the function has a lot of statements b. what happens when a function is called recursively c. the ability to create multiple functions with the same name but with different number of formal parameters or some formal parameters of different types d. what happens when the function takes a long time to execute
o e. I don't want to answer
Pergunta 24 Respondida Pontuação 1,000 🌵 Destacar pergunta
Function pow has the following prototypes: double pow (double base, double exponent); float pow (float base, float exponent); long double pow (long double base, long double exponent);
It returns base raised to the power exponent (example: when base=2 and exponent=3, it returns 8 (=2 ³).
Which of the following statements must be used to write to the screen the value of 2.5 ^{1.3}
Selecione uma opção de resposta: a. cout << pow(long double 2.5, long double 1.3); b. I don't want to answer c. cout << pow(float 2.5, float 1.3); d. cout << double pow(double base=2.5, double exponent=1.3); e. cout << pow(2.5, 1.3);
Pergunta 25 Respondida Pontuação 1,000 P Destacar pergunta
Which of the following is FALSE: Selectione uma opção de resposta: a. The i-th element of a vector can be accessed either as v.at(i) or as v[i] b. Vectors can grow dynamically c. Each line of a 2D vector can have a different number of elements d. I don't want to answer e. The elements of a C array can't be of different types but the elements of an STL vector can be of different types