

Given the following code:

```
1. #include <iostream>
2. #include <fstream>
3. #include <string>

4. using namespace std;

5. int main()
6. {
7.     string input;
8.     fstream nameFile;

9.     nameFile.open("murphy.txt", ios::in);

10.    if (nameFile)
11.    {
12.        getline(nameFile, input);

13.        while (nameFile)
14.        {
15.            cout << input << endl;

16.            getline(nameFile, input);
17.        }

18.        nameFile.close();
19.    }
20.    else
21.    {
22.        cout << "Important Message.\n";
23.    }
24.    return 0;
25. }
```

Answer the following questions:

1. The program uses the _____ function to _____ a line of data from a _____.

- A) **getline, read, file** B) getline, write, file
C) open, read, file D) open, write, file

2. The program uses the variable declared in line _____ to hold _____.

- A) nine, file input B) eight, data
C) **seven, file input** D) seven, a file pointer

3. Line 15 will _____ and line 16 will _____.

- A) output to the file, read the same item
- B) not compile, Read the last item only in the file
- C) read the next item, display the last item read
- D) **display the last item read, read the next item**

4. If the file was not successfully opened the _____ and _____ ?

- A) variable "nameFile" will be false, line 10 will fail
- B) variable "nameFile" will be null, line 10 will fail
- C) variable "nameFile" will be false, line 16 will not execute
- D) **variable "nameFile" will be null, line 16 will not execute**

5. The Message described in line 22 should be changed to _____ ?

- A) **"ERROR: Cannot open file.\n"**
- B) "CLOSING ALL FILES: Unable to write last item to file.\n"
- C) "SUCCESS: File saved.\n"
- D) "RETURNING TO MAIN PROGRAM: file operation complete.\n"

6. Which statement correctly defines a vector object for holding integers?

- A) vector v<int>;
- B) int<vector> v;
- C) int vector v;
- D) **vector<int> v;**

7. Explains the statement: `vector<int> v(10, 2);`

- A) It creates a vector object and initializes all the first two elements with the values 10 and 2.
- B) It creates a vector object with a starting size of 10 and the first element initialized with the value 2.
- C) It creates a vector object with a starting size of 2 and the first element initialized with the value 10.
- D) **It creates a vector object with a starting size of 10 and all elements are initialized with the value 2.**

8) This vector function returns the number of elements in a vector.

- A) **size**
- B) elements
- C) num_elements
- D) length

9) This vector function removes an item from a vector.

- A) remove_item
- B) erase
- C) delete_item
- D) **pop_back**

10) This vector function returns true if the vector has no elements.

- A) has_no_elements
- B) **empty**
- C) null_size
- D) is_empty

11) A vector object automatically expands in size to accommodate the items stored in it.

- A) **This is a TRUE statement**
- B) This is a false statement