DSA - Mock Test 1 - C++

This test includes DSA topics of Arrays, 2D Arrays and Strings in C++

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* Indicates required question

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Which of the following gives the memory address of the first element in array?   * 1 point

○ array(2);

○ array[1];

◉ array[0];

○ array;

How do you initialize a 2D character array during declaration? * 1 point

○ char arr[][] = {"abc", "def", "ghi"};

○ char arr[][] = {"abc", "def"};

○ char arr[3][4] = {"abc", "def", "ghi"};

◉ char arr[3][4] = {'a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i'};

Consider an array consisting of −ve and +ve numbers. What would be the worst case time complexity of an algorithm to segregate the numbers having same sign altogether i.e all +ve on one side and then all -ve on the other ? * 1 point

○ O(N)

◉ O(N*N)

○ O(LOG N)

○ O(N LOG N)

Consider a two dimensional array A[20][10]. Assume 4 words per memory cell, the base address of array A is 100, elements are stored in row-major order and first element is A[0][0]. What is the address of A[11][5] ?

* 1 point

- ○ 560
- ○ 360
- ⦿ 460
- ○ 660

Which of the following can be considered as the correct syntax for declaring an array of pointers of integers that has a size of 10 in C++?

* 1 point

- ○ int arr = new int[10];
- ○ int *arr = new int*[10];
- ⦿ int **arr = new int*[10];
- ○ int *arr = new int[10];

Which function is used to get the length of a string object? *

1 point

○ str.length()

○ str.size()

○ str.max_size()

◉ both size() and length() function

What is the correct output of the given code? *

1 point

```
#include <iostream>
  #include <string.h>
using namespace std;
 int main() {
 string str1 = "ABC";
 string str2;
 strcpy(str2, str1);
 cout << str2 << endl;
 return 0; }
```

○ ABC

○ Syntax error

○ Garbage value

◉ Runtime error

Which of the following function is used to change characters in string object from the specified index? * 1 point

○ change()

○ update()

○ edit()

◉ replace()

What will be the output of the following C++ code?#include <iostream> * 1 point
#include <string>
using namespace std;
int main() {
 string str {"Steve jobs founded the apple"};
 string str {"apple"};

 unsigned found = str.find(str2);
 if (found != string :: npos) cout << found << "\n";
 return 0; }

○ apple

○ 12

◉ 23

○ Steve jobs founded the

What is the error in the following code snippet? *   1 point

```
#include <iostream>
#include <string>
using namespace std;
 int main() {
 string str = "Hello";
 str[0] = 'h';
 cout << str << endl;
 return 0; }
```

◯ The code is missing the <string> header.

◯ The index 0 cannot be modified in a string.

🔘 There is no error in the code.

◯ The str variable should be declared as a character array.

Next   Clear form