

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.

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