



Midterm Written Examination.
18/5/2021

Time all: 30 Min.
A



Answer the following questions

1. Which of the following correctly declares an array?
 - a) int array[10];
 - b) int array;
 - c) array{10};
 - d) array array[10];

2. What is the index number of the last element of an array with 9 elements?
 - a) 9
 - b) 8
 - c) 0
 - d) Programmer-defined

3. What is the correct definition of an array?
 - a) An array is a series of elements of the same type in contiguous memory locations
 - b) An array is a series of element
 - c) An array is a series of elements of the same type placed in non-contiguous memory locations
 - d) An array is an element of the different type

4. Which of the following accesses the seventh element stored in array?
 - a) array[6];
 - b) array[7];
 - c) array(7);
 - d) array;

5. What will be the output of the following C++ code?

```
#include <stdio.h>
#include<iostream>
using namespace std;
int array1[] = {1200, 200, 2300, 1230, 1543};
int array2[] = {12, 14, 16, 18, 20};
int temp, result = 0;
int main()
```

```

{
    for (temp = 0; temp < 5; temp++)
    {
        result += array1[temp];
    }
    for (temp = 0; temp < 4; temp++)
    {
        result += array2[temp];
    }
    cout << result;
    return 0;
}

```

- a) 6553
- b) 6533
- c) 6522
- d) 12200

6. What will be the output of the following C++ code?

```

#include <stdio.h>
#include<iostream>
using namespace std;
int main ()
{
    int array[] = {0, 2, 4, 6, 7, 5, 3};
    int n, result = 0;
    for (n = 0; n < 8; n++)
    {
        result += array[n];
    }
    cout << result;
    return 0;
}

```

- a) 25
- b) 26
- c) 27
- d) 21

7. What will be the output of the following C++ code?

```
#include <stdio.h>
```

```

#include<iostream>
using namespace std;
int main()
{
    int a = 5, b = 10, c = 15;
    int arr[3] = {&a, &b, &c};
    cout << *arr[*arr[1] - 8];
    return 0;
}

```

- a) 15
- b) 18
- c) garbage value
- d) compile time error

8. What will be the output of the following C++ code?

```

# include <stdio.h>
# include <iostream>
using namespace std;
int main()
{
    char str[5] = "ABC";
    cout << str[3];
    cout << str;
    return 0;
}

```

- {
- a) ABC
 b) ABCD
 c) AB
 d) AC
9. The operator used for dereferencing or indirection is _____
 a) *
 b) &
 c) ->
 d) ->>
10. Choose the right option.
 string* x, y;
 a) x is a pointer to a string, y is a string
 b) y is a pointer to a string, x is a string
 c) both x and y are pointers to string types
 d) y is a pointer to a string
11. Which of the following is illegal?
 a) int *ip;
 b) string s, *sp = 0;
 c) int i; double* dp = &i;
 d) int *pi = 0;
12. What will be the output of the following C++ code?

```
#include <iostream>
using namespace std;
```

```
int main()
{
    int a = 5, b = 10, c = 15;
    int *arr[ ] = {&a, &b, &c};
    cout << arr[1];
    return 0;
}
```

a) 5
 b) 10
 c) 15
 d) it will return some random number

13. What will be the output of the following C++ code?

```
#include <iostream>
using namespace std;
int main()
{
    char arr[20];
    int i;
    for(i = 0; i < 10; i++)
        *(arr + i) = 65 + i;
    *(arr + i) = '\0';
    cout << arr;
    return(0);
}
```

a) ABCDEFGHIJ
 b) AAAAAAAA
 c) JJJJJJJ
 d) AAAAAJJJJ

14. Write C++ program to ask the user to enter array {1,5,13,4,25} from keyboard then ask the user to enter the required number to search it {13} using jump search technique