



Answer question one and any other two questions

Q1: Chose the correct answer of the following: (60 Marks)

- 1- What is a correct syntax to output "Hello World" in C++?
a- System.out.println("Hello World"); b- cout << "Hello World";
c- print ("Hello World"); d- println("Hello World");
- 2- How do you insert COMMENTS in C++ code?
a- /* This is a comment b- // This is a comment c- # This is a comment
- 3- Which data type is used to create a variable that should store text?
a- Txt b- string c- String d- myString
- 4- How do you create a variable with the floating number 2.8?
a- byte x = 2.8 b- double x = 2.8; c- int x = 2.8; d- x = 2.8;

① b
② b
③ d
④ b
⑤ c
⑥ a
⑦ a
⑧ c
⑨ c
⑩ a

- 5- Which method can be used to find the length of a string?
a- getSize() b- getLength() c- length() d- len()
- 6- The value of a string variable can be surrounded by single quotes.
a- False b- True
- 7- Which header file lets us work with input and output objects?
a- include <stream> b- #include <iosstring> c- #include <inputstr
d- #include <iostream>

8- Which operator can be used to compare two values?

a- < b- = c- > d- ==

9- To declare an array in C++, define the variable type with:

a- int b- Q c- n

10- Array indexes start with: a- 0 b- 1

Q2: Write a C++ program to accept the following numbers using array, print the output in reverse order.
6 5 7 8 11 2 1 4 3. (20 Marks)

Q3: Write a C++ program using array to accept these numbers: 1 2 4 3 6 5 7 8 9. (20 Marks)
Your program need to find the average of the even numbers.

Q4: What is the output from the code segment below? (20 Marks)

```
int x = 10; int y = 40;
if (x >= 10) {
    if (y < 40) {
        y++;
    }
    else {
        y--;
    }
    cout << x << " " << y << endl;
}
```

x = 10
y = 40

Q1

1-b

2-b

3-b

4-b

5-c

6-a

7-d

8-d

9-c

10-a

```

1 //Q2
2 #include <iostream>
3 using namespace std;
4
5 int main() {
6     int size = 9; // Define the size of the array
7     int numbers[size]; // Declare an array to hold the numbers
8
9     // Accept numbers from the user and store them in the array
10    for (int i = 0; i < size; ++i) {
11        cout << "Enter number " << (i + 1) << ": ";
12        cin >> numbers[i]; //6 5 7 8 11 2 1 4 3
13    }
14
15    cout << "Numbers in reverse order:" << endl;
16    // Print the numbers in reverse order
17    for (int i = size - 1; i >= 0; --i) {
18        cout << numbers[i] << " ";
19    }
20    cout << endl;
21
22    return 0;
23 }
24 //was created by anas riyadh

```

```

Enter number 1: 6
Enter number 2: 5
Enter number 3: 7
Enter number 4: 8
Enter number 5: 11
Enter number 6: 2
Enter number 7: 1
Enter number 8: 4
Enter number 9: 3
Numbers in reverse order:
3 4 1 2 11 8 7 5 6

```

```

-----
Process exited after 17.17 seconds with return value 0
Press any key to continue . . . |

```

```
//Q3
#include <iostream>
using namespace std;

int main() {
    const int size = 9; // Define the size of the array
    int numbers[size] = {1, 2, 4, 3, 6, 5, 7, 8, 9}; // Define the array with the given numbers

    int sum = 0; // Variable to store the sum of even numbers
    int count = 0; // Variable to count the number of even numbers

    // Iterate through the array to find even numbers and calculate their sum
    for (int i = 0; i < size; ++i) {
        if (numbers[i] % 2 == 0) {
            sum += numbers[i];
            count++;
        }
    }

    // Check if there are even numbers in the array
    if (count > 0) {
        // Calculate the average
        double average = static_cast<double>(sum) / count;
        cout << "Average of even numbers: " << average << endl;
    } else {
        cout << "No even numbers found in the array." << endl;
    }

    return 0;
}
```

//was created by anas riyadh

Average of even numbers: 5

 Process exited after 0.05726 seconds with return value 0
 Press any key to continue . . . |

```

1 //Q4
2 #include <iostream>
3 using namespace std;
4
5 int main() {
6     int x=10;
7     int y=40;
8     if(x>=10){
9
10        if(y<40){
11            y++;
12        }else{
13            y--;
14        }
15
16        cout<<"x:"<<x<<"\n"<<"y:"<<y<<endl;
17    }
18    return 0;
19 }
20 //was created by anas riyadh
21

```

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x:10

y:39

Process exited after 0.07841 seconds with return value 0

Press any key to continue . . . |