


National University of Computer and Emerging Sciences, Lahore Campus

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|---|--------------|--------------------------|--------------|-----------|
|  | Course Name: | Programming Fundamentals | Course Code: | CS1002 |
| | Program: | Electrical Engineering | Semester: | Fall 2023 |
| | Duration: | 15 minutes | Total Marks: | 10 |
| | Exam Date: | 30 November 2023 | Weight: | 3.33 |
| | Section: | EE-1A -2 | Page(s): | 2 |
| | Exam Type: | Quiz-3 Solution | CLO # | 4 |
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Student Name: _____ Roll No. _____ Section: _____

Instruction/Notes: 1. Do not forget to write your Name and Roll Numbers.
2. Solve on the paper and Return.

Question No. 1

Marks: 10

What is stored in myList after the following C++ code executes?

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

int main( )
{
    int quantity[5] = {3, 5, 2, 8, 1 };
    double unitCost[5] = {15.00, 20.00, 5.00, 3.00, 75.00};
    double price[5];

    double billingAmount = 0;

    for (int i = 0; i < 5; i++)
    {
        price[i] = quantity[i] * unitCost[i];
        billingAmount = billingAmount + price[i];
    }

    cout << fixed << showpoint << setprecision(2);
    cout << setw(7) << "Quantity" << " " << setw(9) << "Unit Cost" << " " << setw(6)
    << "Amount" << endl;

    for (int i = 0; i < 5; i++)
        cout << setw(4) << quantity[i] << " " << setw(8) << unitCost[i] << " " << setw(9) <<
        price[i] << endl;

    cout << "Total due: $" << billingAmount << endl;
    return 0;
}
```

Solution

| Quantity | Unit | Cost | Amount |
|---------------------|-------|------|--------|
| 3 | 15.00 | | 45.00 |
| 5 | 20.00 | | 100.00 |
| 2 | 5.00 | | 10.00 |
| 8 | 3.00 | | 24.00 |
| 1 | 75.00 | | 75.00 |
| Total due: \$254.00 | | | |