Computer Programming 2
Quiz 3, 10 Points
Time: 20 min.
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1. (4 Points**) True or False? Why?**

a. `Throw` keyword can throw an Object. [ ]

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b. If you have different classes A, B then C++ can perform implicit casting between objects of A and B [ ]

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c. If a class has a virtual method with implementation then this class is called abstract class. [ ]

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d. The term "Overriding" means to redefine an existent method with different parameters. [ ]

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2. (3 Points**) Trace the following program then answer the questions.**

```
1  #include <iostream>
2  #include <string>
3  using namespace std;
4  namespace var{
5      string s="wonderful";
6  }
7  using namespace var;
8  int main() {
9      string s="nice ";
10     cout<<s;
11     s.insert(6,"life");
12     return 0;
13 }
```

a. (1 point**) What is the expected output of line** `10`**?**

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b. (2 points**) Line** `11` **will generate** `out_of_range` **exception, rewrite the program to handle this problem using standard exceptions library.**

3. (3 Points) **Write a complete program with class** `Math` **contains a dynamic array of integer called** `data` **with** `size` **defined by the user in the run time. The class has a method called** `sum` **to return the summation of the given array.** [Answer this question behind]

Do your best, Good Luck