1. 选择:

有以下程序:

```
#include <iostream>
using namespace std;
class A
public:
  A() { cout << 'A'; }
   ~A() { cout << 'C'; }
};
class B : public A
public:
  B() { cout << 'G'; }
   ~B() { cout << 'T'; }
};
int main()
   B obj;
  return 0;
}
```

执行后的输出结果是()

A. GATC B. AGTC C. GACT D. AGCT

2. 判断:

```
在下面的类中, bar 将先于 foo 被构造。( )

#include "Mucus.h"

class Marvin {
   public:
        Marvin(): bar(2), foo(3) {}
        Mucus foo;
        Mucus bar;
};
```

3. 改错:

```
class Time
{
  public:
    void ~Time(int);
    int Time(int,int,int);

private:
    int hour = 0;
    int minute = 0;
    int second = 0;
};
```

4. 阅读代码:

```
#include <iostream>
using namespace std;
class blah {
  public:
      static int a;
      int b;
      blah(int x) {
         b=x;
         a=b+1;
};
int blah::a = 0;
int main(void) {
 blah b1(5);
 blah b2(12);
 cout << "b1.a is " << b1.a << endl;</pre>
 cout << "b1.b is " << b1.b << endl;</pre>
 cout << "b2.a is " << b2.a << endl;</pre>
 cout << "b2.b is " << b2.b << endl;
 return 0;
}
```

5. 问答题:

已知 Base 类和 Derive 类有如下继承关系:

```
class Base
 public:
     Base();
     virtual ~BaseV();
};
class Derived : public Base
{
 public:
     Derived();
     ~Derived();
     void PrintMessage();
};
请问:下面的函数是否有Bug,如果有,请说明并修正。
void foo( Base* pb ) {
 Derived* pd = dynamic_cast<Derived*>( pb );
 pd->PrintMessage();
};
```

6. 编程题:

编写 String 的构造函数、析构函数、拷贝构造函数和赋值函数。