Object Oriented Programming BS SE Fall2017

Name=_____ Rollnumber=_____

Quiz # 4

Question#1 **4+4 marks**

Consider the following codes and Write down the output/errors of the given code segments :

Code Snippets	

`#include <iostream>`
`using namespace std;`
`class test {`
`  int code;`
`  static int count;`
`public:`
`  void setcode();`
`  void showcode();`
`  static void showcount();`
`};`
`int test::count;`
`void test::setcode()`
`{`
`  count += 1;`
`  code = count;`
`}`
`void test::showcode()`
`{`
`  cout << "object number :" << code << "\n";`
`}`
`void test::showcount()`
`{`
`  cout << "count:" << count << "\n";`
`}`
`int main()`
`{`
`  test t1, t2;`
`  t1.setcode();`
`  t2.setcode();`
`  test::showcount();`
 	
`  test t3;`
`  t3.setcode();`
`  test::showcount();`
`  t1.showcode();`
`  t2.showcode();`
`  t3.showcode();`
`  return 0;`
`}`
	`#include<iostream>`
	`using namespace std;`
	
	`class A`
	`{`
	`private:`
	`  int i;`
	`public:`
	`  A();`
	`  static void g();`
	`  ~A();`
	`};`
	`A::A()`
	`{`
	`  i = 0;`
	`  cout << "default constructor of A()" << endl;`
	`}`
	`void A::g()`
	`{`
	`  cout << "Value of i is: " << i << endl;`
	`  cout << "static G() of A" << endl;`
	`}`
	`A::~A()`
	`{`
	`  cout << "Destructor of A" << endl;`
	`}`
	`int main()`
	`{`
	`  A::g();`
	`  return 0;`
	`}`

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Question # 2 [12 marks]

Write down the definition of the following function of Class CString;

CString* split(char c , int & newCount);

This function is used to **split** the calling **cstring** on character **'c'** into an array of substrings, and returns the new array. It will aslo return count of array through newCount parameter which is passed as a reference.

For example: If a calling CString contains

"Self-belief and hard work will always earn you success"

and we call **split** function with **c=" "(space)** and a variable for newCount than it should return an array of CStrings with size 9 in newCount and whereas the first element of array will contain **"Self-belief"**, second will contain **"and"** third will contain **"hard"** and last will contain **"success"**.