

Quiz 1 – 20 points possible

1. (1.5 pts) What happens if a thrown exception is not caught?

2. (4 pts) Given the following snippet of code: (If this doesn't come natural to you, you should draw a picture)

```
int x = 1;
int* ptr1 = NULL;
int* ptr2 = 0;
int* ptr3 = &x;
int z = x;
*ptr3 = 2;
```

Describe what the following statements will produce (either what will be printed or what will happen).

a) `cout << *ptr1 << endl;`

b) `cout << *ptr2 << endl`

c) `cout << z << endl;`

d) `cout << ptr3 << endl;`

e) `cout << x << endl;`

f) `cout << ptr1 << endl;`

g) `cout << *ptr3 << endl;`

h) `cout << &ptr3 << endl;`

3. (4.5 pts) Give 3 benefits when using modularity

4. (2 pts) Briefly define object oriented programming.

5. (2 pts) Briefly define what an abstract data type is.

6. (6 pts) Given a list with multiple occurrences of items (duplicate items can be stored in the list) write a *recursive* list class member function to find and return a pointer to the node containing the *LAST* occurrence of an item. If the item doesn't exist, return null. If there is only one occurrence of the item, just return a pointer to that occurrence.