

CMPT 383
Quiz #1
September 13, 2005

- 1) Write a concrete example of orthogonality (from a real programming language)

- 2) In the following fragment of a program, cite which characteristics of readability have/have not been applied (see example)

```
1.   loop 1:
2.       if ( num > 10 ) go to out;
3.   loop 2:
4.       if ( sum < 0 ) go to next;
5.       if (no_final == false ) go to out
6.       sum = sum + 1;
7.       go to loop 2;
8.   next:
9.       num++;
10.      go to loop 1;
11.   out:
```

Example:

```
1.   while ( extra > 10.5 )
2.   {
3.       mark = extra + 4.7;
4.       if ( mark < 74.9 )
5.       {
6.           message = "not" + "enough";
7.       }
8.   }
```

Answer:

- a) 3, 6 : Overall simplicity due to operator overloading
- b) Pairs 2-8, 5-7: Syntax considerations because there are no special words for block structure