Mini Quiz 13

Name:			
Kerberos:			

Consider the following class hierarchy:

class y extends x {	class z extends x {
int c;	int e;
int d;	int f;
void h() { }	void h() { }
}	}
	<pre>int c; int d;</pre>

Assume that fields are laid out sequentially starting from a at index 0.

Q1: What index will be accessed for each of the following?

x.a	x.b	у.а	у.с	z.b	z.f
0	1	0	2	1	3

Consider an instance of class z at runtime in a language with dynamic dispatch in the style of C++:

Q2: What data might you store for class z itself (shared between all instances of z)?

The method symbol table (potentially with a pointer to x's method table, or with x's methods inlined)

Q3: What data might you store for each instance of class z?

[a, b, e, f] and a pointer to z's method symbol table.