

Login name _____

Quiz 2

Name _____

CSE 131B

Signature _____

Spring 2007

Student ID _____

1. Static vs. Dynamic Scoping. Consider the following C-like program:

```

int x = 9;

int f () { return x; }

int g () { int x = 2; return f(); }

int main()
{
  int x = input();      /* input() reads input from the user. */
  if ( x > 4 )
    output( g() );     /* output() prints out a value. */
  else
    output( f() );
}

```

Fill in the table of what value gets printed based on the user input and whether the language uses static or dynamic scoping.

Input	Static scoping	Dynamic scoping
4		
6		

2. Good Stuff

Given the following code fragment:

```

int x = 420;
float y = 4.20;
int *ptr1 = &x;
int *ptr2 = ptr1;

```

for each statement indicate whether it will cause a compile error or not? If a statement will cause an error, WHY? Treat each statement individually as if it was the only statement following the definitions above.

- A) Compile Error
- B) No Error

amp;ptr2 = ptr1;	_____	++(float *)&x;	_____
&*ptr2 = ptr1;	_____	(float *)ptr2 = &y;	_____
ptr1 = *&ptr2;	_____	ptr2 = ++&x;	_____
ptr1 = &*ptr2;	_____	ptr2 = &+&x;	_____

