

Student ID _____

CSE 5A

Name _____

Quiz 5

Signature _____

Fall 2003

cs5a _____

This quiz is to be taken **by yourself** with closed books, closed notes, no calculators.

1. Consider the following program. Identify the **scope/visibility** of the marked parts of the program with the corresponding letter from the list below.

- A) The Function **main()**
- B) This Source File
- C) The Entire Program including Other Source Files
- D) The Function **function2()**

```

#include <stdio.h>

#define SIZE 5

int function2( int array[], int size );

long fellow = 420; _____

static int cling; _____

void
main( void )
{
    _____ (main(){...})

    int array[SIZE] = { 0, 3, 5, 2, 6 }; _____

    int result; _____

    /* Other code here */
}

int
function2( int array[], int size )
{
    _____ (function2(){...})   _____ (array)   _____ (size)

    int i = 0; _____

    static int result = 0; _____

    /* Other code here */
}

```

How many times is the variable **result** in function2() initialized to 0 if function2() is called 5 times?
_____ times

How many times is the variable **i** in function2() initialized to 0 if function2() is called 5 times?
_____ times

(continued on other side)

2. Consider the following strings variable definitions.

```
char s1[] = "I love";  
char s2[] = "to Program!";  
char s3[20];
```

```
strcpy( s3, "CSE 5A!" );
```

What gets printed?

```
printf( "%c", s1[4] ); _____
```

```
printf( "%d", strlen( s3 ) ); _____
```

Fill in the blanks to complete the following tasks:

```
/* Change the '!' in string s2 to '?' */
```

```
_____ = '?';
```

```
/* The resulting output is "I love CSE 5A!" in a single printf() statement. */
```

```
printf( "%__ %__", _____, _____ );
```

3. What question would you like to see on the Final Exam?