

Student ID _____

CSE 5A

Name _____

Quiz 5

Signature _____

Summer 2004

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 **function2()**
- B) The Entire Program including Other Source Files
- C) This Source File (and No Other Source Files)
- D) The Function **main()**

```

#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 };  _____

    static int result = 420;           _____

    /* Other code here */
}

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

    static int i = 420;               _____

    int result = 420;                 _____

    /* Other code here */
}

```

How many times is the variable **result** in function2() initialized to 420 if function2() is called 10 times?
_____ times

How many times is the variable **i** in function2() initialized to 420 if function2() is called 10 times?
_____ times

(continued on other side)

2. Consider the following strings variable definitions.

```
char s1[] = "I love";  
char s2[] = "CSE 5A!";  
char s3[20];  
  
strcpy( s3, "to program!" );
```

What gets printed?

```
printf( "%c", s2[2] ); _____  
printf( "%d", strlen( s3 ) ); _____
```

Fill in the blanks to complete the following tasks:

/* The resulting output is "I love to program!" in a single printf() statement. */

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

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

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

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