

Login name _____

Quiz 4
CSE 131
Winter 2010

Name _____

Signature _____

Student ID _____

1. Project II Code Gen – Phase II.3:

What is the output of the following Reduced-C program:

```
int a = 3;
int b = 7;
int c;

function : int foo( int x, int & y )
{
    int z;

    y = x + 4;
    x = y + 4;
    z = x + y;

    cout << x << endl;
    cout << y << endl;
    cout << z << endl;

    b = x + 4;

    return x + 2;
}

function : int main( )
{
    c = foo( a, b );

    cout << a << endl;
    cout << b << endl;
    cout << c << endl;

    return 0;
}
```

Output

Use the options below to fill in the blanks

- A) positive
- B) negative
- C) %fp
- D) %sp
- E) %pc
- F) %i0-%i5
- G) %o0-%o5
- H) -68
- I) +68
- J) -4
- K) +4
- L) +0

In the SPARC architecture, local variables are stored and accessed with a _____ offset from the current _____ register. Actual arguments are passed to functions by the caller in the _____ registers and are retrieved by the callee in the _____ registers. They should be stored in the current stack frame's formal parameter area with the first argument stored at offset _____ from the current _____ register.

