#1.
To access local variables stored on the Runtime Stack in the SPARC architecture, you use a 
____________________ offset relative to register ___________.

The ___________ instruction saves the current value of %pc in %o7.

The ___________  instruction adds __________  to the value in __________ and stores the result in __________.

In gdb, how do you set a breakpoint at a function named scooby?

_______________________________

The ___________ registers in the current register window set are mapped back to the ___________ registers as part of the restore instruction.

________________  subroutines support recursion.

If we have a ret instruction, the next instruction should be _________________.

#2.

a) Convert -76.125\textsubscript{10} to binary fixed-point and single precision IEEE floating-point representation (expressed in hexadecimal).

binary fixed-point __________________________________ x 2\textsuperscript{0}

IEEE floating-point ________________________________ (hexadecimal)

b) Convert 0x428A8000 (single precision IEEE floating-point representation) to fixed-point decimal.

fixed-point decimal ________________________________ (decimal / no exponential notation)
#3. Name 2 limitations of leaf subroutines.

1) 

2) 

#4. What gets printed with the function call `mystery(15);`?

```c
int mystery( int param ) {
    int local = 70;

    if ( local > param ) {
        local = local - param;
        printf( "%d\n", local ); /* Output the value of local followed by a newline */
        param = mystery( param + 15 ) + local;
        printf( "%d\n", param ); /* Output the value of param followed by a newline */
    } else {
        printf( "Halt\n" );
    }

    return local;
}
```