

Homework 5

1. Consider the assembly code below. Fix all obvious mistakes in the code. After each instruction executes, fill in the blanks on the right. Assume and use decimals for this problem.

```
92    movw  r2, #2
96    movw  sp, #12
100   movw  r0, #1
104   movw  r1, #3
108   bl     mysub
112   teq   r0, r2      // r0=_____ r1=_____ r2=_____
forever
116   b forever
mysub
120   push  {r0,lr}      //sp=_____
124   eor   r0, r1      //r0=_____
128   pop   {r1,r2,lr}  //pc=_____ lr=_____ sp=_____
132   bl     mysub2    //sp=_____
136   bx     r14
mysub2
140   push  {r1,lr}      //sp=_____
144   eor   r2, r1      //r2=_____
148   pop   {r2,lr}      //pc=_____ lr=_____ sp=_____
```