## Adam Cunningham Homework 3

## 1 d)

fp		fp					
sp	oldstack		oldstack		oldstack		oldstack
			\$tO		\$t0		\$t0
			\$t5		\$t5		\$t5
		sp	\$t6		\$t6		\$t6
				fp		fp	
							Arg2 = a1
					ra		ra
				sp	fp		fp
							\$s0
							\$s1
							\$s2
						sp	\$s7

```
2(d)
addiu
         $sp, $sp, -8
SW
         $t0, 4($sp)
SW
         $t1, 0($sp)
addi
         $a0, $zero, 0x61
         $a1, $zero, 10
addi
addi
         $a2, $zero, 0x42
addi
         $a3, $zero, -2
         $t3, $zero, 0xffff
addi
         $t3, -4($sp)
                                   \#arg5 = 0xffff
sw
lw
         $t1, 0($sp)
lw
         $t0, 4($sp)
         $sp, $sp, 8
addiu
3(d)
addiu
       $sp, $sp, -28
       $ra, 4($sp)
sw
       $fp, 0($sp)
sw
addiu $fp, $sp, 24
#save the aX registers
      $a1, 12($sp)
sw
#save relevant sX registers
addiu $sp, $sp, -4
      $s1, 0($sp)
sw
...body...
     $s1, 0($sp)
lw
addiu $sp, $sp, 4
lw
     $fp, 0($sp)
lw
     $ra, 4($sp)
        $sp, $sp, 28
addiu
      $ra
jr
```