```
# Lucas Hasting

#int b, c, d;
lw $t0, 5008($zero) #b
lw $t1, 5012($zero) #c
lw $t2, 5016($zero) #d

#int e = 5*b+3*c+4*d
  #5 * b
  addi $t3, $zero, 5
  mul $t4, $t3, $t0
  #+ 3 * c
  addi $t3, $zero, 3
  mul $t5, $t3, $t1
  add $t4, $t4, $t5
  #+ 4 * d
  addi $t3, $zero, 4
  mul $t5, $t3, $t2
  add $t4, $t4, $t5
  #=
  sw $t4, 5020($zero)

#int f = d + 10 * c - 4 * b
  #10 * c
  addi $t3, $zero, 10
  mul $t4, $t3, $t1
  #d +
  add $t4, $t4, $t2
  #10 * b
```

```
addi $t3, $zero, 4

mul $t5, $t3, $t0

#c -

sub $t4, $t4, $t5

#=

sw $t4, 5024($zero)


#int a = e + f

  #load e

  lw $t3, 5020($zero)

  #load f

  lw $t4, 5024($zero)

  #e+f

  add $t5, $t3, $t4

  #=

  sw $t5, 5004($zero)
```

Registers	
$zero	0
$t0	15
$t1	47
$t2	-28
$t3	104
$t4	382
$t5	486
$t6	0
$sp	8188
$ra	0

Data memory	
5000	0
5004	486
5008	15
5012	47
5016	-28
5020	104
5024	382
8180	0
8184	0
8188	0