

```
#-----  
main:    lui    $s2,0x1000    # load base addr  
        lw     $s3,0($s2)  # load data count  
        add   $s2,$s2,4    # data start address  
  
        add   $s1,$zero,$zero # init accumulator  
        add   $s0,$zero,$zero # init loop variable  
  
Loop:    slt    $t0,$s1,$s3  
        beq   $t0,$zero,Exit  
  
        add   $t0,$s1,$s1    # begin compute effective address  
        add   $t0,$t0,$t0  
        add   $t1,$s2,$t0    # end compute effective address  
        lw    $t0,0($t1)  
  
        sub   $t0,$zero,$t0  
        add   $s0,$s0,$t0  
        addi  $s1,$s1,1  
        j     Loop  
  
#-----  
Exit:    ori    $2,$0,10    # system call: exit program  
        syscall
```