

```

9  #problem 6
10      li s1, 6          # s1 = a = 6    (a is a variable)
11      li s2, 1          # s2 = i = 1    (given in problem)
12                      # S3 = j = 0
13      li s4, 1          # s4 = r = 1
14      li s5, 0x55AABB33 # s5 = 0x55AABB33
15
16      beq x0, x0, outtertest # start the loop by first testing condition
17 oloop: li s3, 0          # reset j to 0
18      beq x0, x0, innertest # start the inner loop by testing j < i
19 iloop: add t0, s3, s5     # j + 0x55AABB3
20      xor s4, s4, t0       # r ^= (j + 0x55AABB33)
21      addi s3, s3, 1       # increment j by 1
22 innertest:
23      blt s3, s2, iloop    # if j < i, repeat inner loop
24      addi s2, s2, 1       # increment i by 1
25 outtertest:
26      blt s2, s1, oloop    # if i < a, repeat outter loop
27
28

```