```
Tiger
function fact(n : int) : int =
                                          fact:subu
                                                      $sp, $sp, 20
  if n < 1 then 1
                                                      $fp, 8($sp)
                                               SW
           else (n * fact(n - 1))
                                               addiu
                                                      $fp, $sp, 20
                                                      s2, -8(fp)
                                               SW
                                                      $ra, -4($fp)
                                               SW
                                                      $a0. 0($fp)
                                               SW
                                                      $s2, $a1
                                               move
                                               li
                                                      $t0, 1
                                               bge
                                                      $s2, $t0, c_0
                                               li
                                                      $v0, 1
                                               b
                                                      d_0
                                          c_0: lw
                                                      $a0, ($fp)
                                               li
                                                      $t0, 1
                                               subu
                                                      $a1, $s2, $t0
                                               jal
                                                      fact_a_0
                                               mul
                                                      $v0, $s2, $v0
                                          d 0: lw
                                                      $s2, -8($fp)
                                    MIPS
                                                      $ra, -4($fp)
                                               lw
                                                      $fp, 8($sp)
                                               lw
                                               addiu
                                                      $sp, $sp, 20
                                                      $ra
                                               jr
```