```
.data
newline: .asciiz "\n"
.text
main:
 li $t0, 1
loop:
 bgt $t0, 10, ready
 move $a0, $t0
 jal square
 move $a0, $v0
 li $v0, 1
 syscall
 li $v0, 4
la $a0, newline
 syscall
 addi $t0, $t0, 1
 j loop
ready:
 li $v0, 10
 syscall
square:
# Square of argument
# Input: $a0: int
# Output: $v0: int
                                #
                                #
mul $v0, $a0, $a0
 jr $ra
        # return
```

```
.macro prints (%p) ## print string %p ##
 li $v0, 4
 la $a0, %p
 syscall
.end_macro
.macro printLF ## print newline ##
 prints newline
.end_macro
.macro printintln (%p) ## print as integer ##
 move $a0, %p
 li $v0, 1
 syscall
 printLF
.end_macro
.macro boe (%p1, %p2) ## branch-on-even ##
 and $at, %p1, 1
 beqz $at, %p2
.end_macro
.macro returnToOS ## return to OS ##
 li $v0, 10
 syscall
.end_macro
.data
newline: .asciiz "\n"
.text
main:
 li $t0, 1
                # $t0: 'i'
                # for ($t0=1; $t0<=10; $t0++)
 bgt $t0, 10, exitloop
 boe $t0, continue # if ($t0%2==0) continue;
 move $a0, $t0
 jal square
                # $v0 = square($a0);
 printintln $v0
               # printf("%d\n", $v0);
continue:
 addi $t0, $t0, 1
              # $t0++;
 j loop
exitloop:
 returnToOS
                # back to OS
square:
# Square of argument
                               #
# Input:
        $a0: int
                               #
# Output: $v0: int
mul $v0, $a0, $a0
 jr $ra
                # return
```