

main:	addi \$s0, \$zero, 48	#set base address
	lw \$s4, 0(\$s0)	#load input
	addi \$a3, \$s4, 0	#transfer input to function parameter
	addi \$a0, \$zero, 1	#previous value initialized to 1
	addi \$s1, \$zero, 0	#clear register
loop:	sw \$a3, 4(\$s0)	#display value
	jal EVEN	# test even or odd passing parameter a3
	bne \$v0, \$s1, case_odd	# branch if even case failed
	j case_even	#jump to even case
EVEN:	andi \$v0, \$a3, 1	# return result of test in \$vo
	jr \$ra	#return
case_odd:	addi \$a0, \$a3, 0	#update old value
	add \$a3, \$a3, \$a3	#update current value odd case
	j loop	#return to loop
case_even:	add \$a3, \$a3, \$a0	#update current value even case
	j loop	#return to loop