Sheet1

TAC	symbols	MOD	comments	observation
0: &() t0 <- a	\$t0 <ptr(4) 10="" <array="" <int="" of="" to="">>></ptr(4)>	a[0] := 1	# pointer to array	
1: mul t1 <- 0, 4	\$t1 <int></int>		# 0 * 4	
2: &() t2 <- a	\$t2 <ptr(4) 10="" <array="" <int="" of="" to="">>></ptr(4)>		# pointer to array	# \$t2 is same as \$t0
3: param 0 <- t2			# parameter: pointer to array	
4: call t3 <- DOFS	\$t3 <int></int>		# offset to the beginning of the data of array a	
5: add t4 <- t1, t3	\$t4 <int></int>		# (0 * 4) + offset	
6: add t5 <- t0, t4	\$t5 <int></int>		# array address + ((0 * 4) + offset)	
7: assign @a <- 1	@a <array 10="" <int="" of="">></array>		# a[0] = 1	
8: assign i <- 1	@i <int></int>	i := 1	# i = 1	
o. doorgii i i	(a) 411/2	1 1	# 1 - 1	
9: 3 while cond:				
10: if i < 10 goto 4 while body		while (i < 10) do	# if (i < 10) continue	
11: qoto 2			# else break	
12: 4 while body:			# else bleak	
13: sub t6 <- 10, i	\$t6 <int></int>	+	# 10 – i	+
13. Sub to <- 10, 1 14: &() t7 <- a	\$t7 <ptr>\$t7 <ptr>\$t7 <pre>st7 <pre>st7</pre></pre></ptr></ptr>	a[i] := 10-i;		
15: mul t8 <- i, 4	\$t8 <int></int>		# pointer to array # i * 4	
				// d+0 : d+7
16: &() t9 <- a	\$t9 <ptr(4) 10="" <array="" <int="" of="" to="">>></ptr(4)>		# pointer to array	# \$t9 is same as \$t7
17: param 0 <- t9	440		# parameter: pointer to array	
18: call t10 <- DOFS	\$t10 <int></int>		# offset to the beginning of the data of array a	
19: add t11 <- t8, t10	\$t11 <int></int>		# (i * 4) + offset	
20: add t12 <- t7, t11	\$t12 <int></int>		# array address + ((i * 4) + offset)	
21: assign @a <- t6	@a <array 10="" <int="" of="">></array>		# a[i] = (10 - i)	
22: add t13 <- i, 1	\$t13 <int></int>	i := i+1	# increment i	
23: assign i <- t13	@i <int></int>			
24: goto 3_while_cond			# continue	
25: 2:		end;		
26: assign i <- 0		i := 0;	# reset i	
27: 10_while_cond:				
28: if i < 10 goto 11_while_body		while (i < 10) do	# if (i < 10) continue	
29: goto 9			# else break	
30: 11_while_body:				
31: &() t14 <- a	\$t14 <ptr(4) 10="" <array="" <int="" of="" to="">>></ptr(4)>	WriteInt(a[i]);	# pointer to array	
32: mul t15 <- i, 4	\$t15 <int></int>		#i*4	
33: &() t16 <- a	\$t16 <ptr(4) 10="" <array="" <int="" of="" to="">>></ptr(4)>		# pointer to array	# \$t16 is same as \$t1
34: param 0 <- t16	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		# parameter: pointer to array	
35: call t17 <- DOFS	\$t17 <int></int>		# offset to the beginning of the data of array a	
36: add t18 <- t15, t17	\$t18 <int></int>		# (i * 4) + offset	
37: add t19 <- t14, t18	\$t19 <int></int>		# array address + ((i * 4) + offset)	
38: param 0 <- @a	7 10.00		# parameter: a[i]	# dereference
39: call WriteInt			# call WriteInt	
40: add t20 <- i, 1	\$t20 <int></int>		" our writefilt	+
41: assign i <- t20	@i <int></int>	i := i+1	# increment i	
42: goto 10 while cond	(S) NIIV	+	# continue	1
43: 9:		end;	# COTIGING	+
40. J.		criu,		