## Original Blocks

read x, g70
read i, g71
subi t1, x, 2
sd y, t1
tgti p1, x, 1
br\_t<p1> L1
br\_t<p2> L2

read i, g71

ld t1, y

ld t2, a + 1

sd t2, t1

addi i, i, 1

write g71, i

read x, g70 ld t2, a+i sd t2, x

## Hyperblock

```
read x, g70
read i, g71
subit1, x, 2
sd y, t1
tgti p1, x, 1
Idt3, a + i
ld_t<p1> t4, y
sd_t<p1> t4, t3
addi_t<p1> i, i, 1
write_t<p1> g71,i
sd_f<p1> t3, x
write_f<p1> g71,null
```