

Main Block

Declaration

- Identifier: `c`
- Size: 1

Declaration

- Identifier: `a`
- Size: 3

Composite Gate

- Identifier: `c_reg_h`
- Map:
 - `control` \mapsto `c`
 - `reg` \mapsto `a`

If Statement

- Guard: `control`

Loop Statement

- Range:
 $0 \leq i \leq \text{sizeof}(\text{reg})$

Gate Statement

- Gate: `h`
- Parameters: [
 `reg`
]