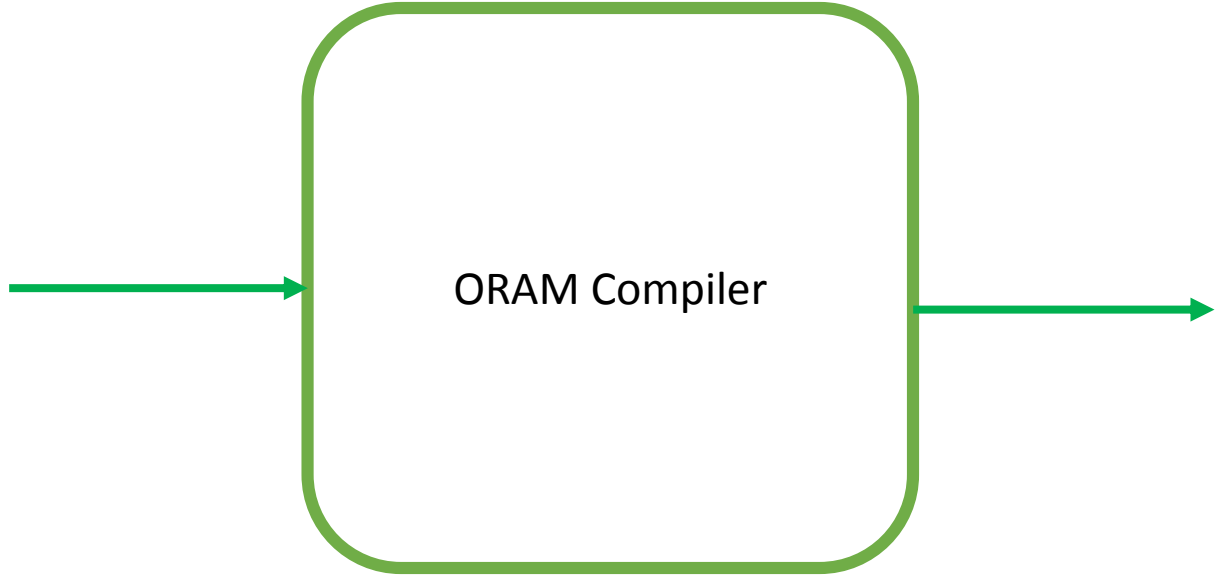


Original Program

- 1. Add r1, r2, r3
- 2. Addi r1, r1, 5
- 3. **Write(r4, r1)**
- 4. **Read (r2, 4)**
- 5. Sub r4, r3, r2
- 6.
- 7.



Oblivious Program

- 1. Add r1, r2, r3
- 2. Addi r1, r1, 5
- 3. **Owrite(r4, r1)**
- 4. **Oread (r2, 4)**
- 5. Sub r4, r3, r2
- 6.
- 7.

Memory : n
Registers : r

Memory : $O(n \log n)$
Registers : $r + \frac{n}{\alpha} + poly \log n$