**Incomplete solution #1**

New states:
- CBF: Comparing with Min. for the first time after a sequence of comparisons in the CM state
- CAF: Comparing with Max. for the first time after a sequence of comparisons in the CN state

- **Initial**
  - $i \leq 0$
  - Transition: $i \leq i + 1$
  - Transition: $i \leq 0$

- **Load**
  - $\text{Max} \leq M(i)$
  - $\text{Min} \leq M(i)$
  - Transition: $i \leq i + 1$

- **Comp. Max**
  - Transition: $i \leq 0$

- **Comp. Min**
  - Transition: $i \leq 0$

- **Done**
  - Transition: $i \leq 0$

- **Comp. Min**
  - Transition: $i \leq 0$

- **Comp. Max**
  - Transition: $i \leq 0$

- **CBF**

- **CAF**

- **CB**

- **CA**

New states:
- CBF: Comparing with Min. for the first time after a sequence of comparisons in the CM state
- CAF: Comparing with Max. for the first time after a sequence of comparisons in the CN state
Initial
i <= 0

Load
Max <= M(i)
Min <= M(i)
i <= i + 1

Done

Comp. Min
CBF

Comp. Min
CB

Comp. Max
CA

Comp. Max
CAF

Reset

Start

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Start