Collision Free Protocols

- Collision free protocols establish rules to determine which stations sends after a successful transmission.
- Assume there are N stations with unique addresses 0 to N-1.
- A contention *interval* is a period after a successful transmission that is divided into N time slots, one for each station.

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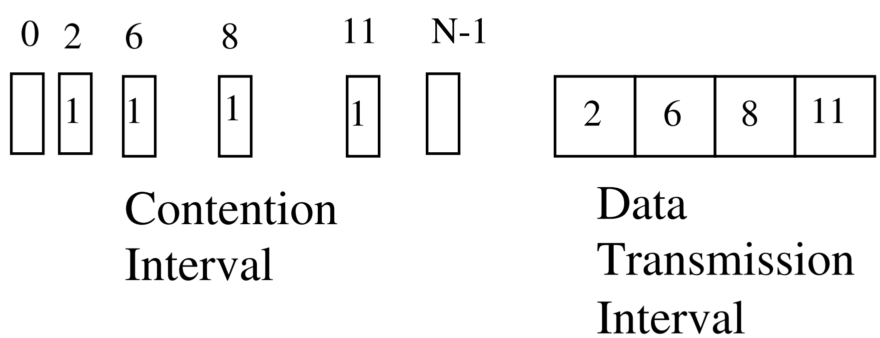
- If a station has a PDU to send it sets a bit to 1 in its time slot in the contention interval.
- At the end of the contention interval all nodes know who has data to send and the order in which it will be sent.



Collision Free Protocols

- Problems:
  - Fairness
  - Flexibility