

Requirements for “Containing Our Excitement”

- Can write one element at a time
- Can read one element at a time
- FIFO (First In First Out)
- Holds a maximum of 1000 `uint16`'s
- Has function to query if full
- Has function to query if empty
- Has function to clear everything
- Reading when empty returns a non-zero status
- Writing when full returns a non-zero status