

// Example: Initial tape #|||||

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// Iteration: Tape => State
// 0: ||||| => State 0
// 1: X|||| => State 1
// 2: 1X|||| => State 0
// 3: 1X|||| => State 0
// 4: 1XX||| => State 1
// 5: 1XX||| => State 1
// 6: 0XX||| => State 1
// 7: 10XX||| => State 0
// 8: 10XX||| => State 0
// 9: 10XX||| => State 0
// 10: 10XX||| => State 0
// 11: 10XXX|| => State 1
// 12: 10XXX|| => State 1
// 13: 10XXX|| => State 1
// 14: 11XXX|| => State 0
// 15: 11XXX|| => State 0
// 16: 11XXX|| => State 0
// 17: 11XXX|| => State 0
// 18: 11XXXX| => State 1
// 19: 11XXXX| => State 1
// 20: 11XXXX| => State 1
// 21: 11XXXX| => State 1
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// 22: 10XXXX| => State 1
// 23: 00XXXX| => State 1
// 24: 100XXXX| => State 0
// 25: 100XXXX| => State 0
// 26: 100XXXX| => State 0
// 27: 100XXXX| => State 0
// 28: 100XXXX| => State 0
// 29: 100XXXX| => State 0
// 30: 100XXXX| => State 0
// 31: 100XXXXX => State 1
// 32: 100XXXXX => State 1
// 33: 100XXXXX => State 1
// 34: 100XXXXX => State 1
// 35: 100XXXXX => State 1
// 36: 101XXXXX => State 0
// 37: 101XXXXX => State 0
// 38: 101XXXXX => State 0
// 39: 101XXXXX => State 0
// 40: 101XXXXX => State 0
// 41: 101XXXXX => State 0
// 42: 101XXXXX => State 2
// 43: 101XXXX => State 2
// 44: 101XXX => State 2
// 45: 101XX => State 2
// 46: 101X => State 2
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// 47: 101 => State 2
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// 48: 101 => State 3
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