

Random Walk Recurrence: 100 Walks

August 16, 2018

At most 100,000,000 steps
Starting Cell Cell('0', '0')

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Walk #, Returned, Walk Length
( 0, True, 2),
( 1, True, 2),
( 2, True, 2),
( 3, False, 100000000),
( 4, False, 100000000),
( 5, True, 8),
( 6, True, 2),
( 7, True, 122),
( 8, False, 100000000),
( 9, True, 9),
( 10, True, 2),
( 11, True, 43),
( 12, True, 7),
( 13, True, 312194),
( 14, False, 100000000),
( 15, False, 100000000),
( 16, False, 100000000),
( 17, True, 2),
( 18, True, 2),
( 19, True, 2724170),
( 20, True, 129),
( 21, True, 2),
( 22, True, 2),
( 23, False, 100000000),
( 24, True, 6),
( 25, True, 4),
( 26, True, 2),
( 27, False, 100000000),
( 28, False, 100000000),
( 29, False, 100000000),
( 30, True, 2),
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(31, True, 11165899),
(32, False, 100000000),
(33, True, 2),
(34, False, 100000000),
(35, True, 2),
(36, False, 100000000),
(37, False, 100000000),
(38, False, 100000000),
(39, True, 2),
(40, True, 478),
(41, False, 100000000),
(42, False, 100000000),
(43, True, 2),
(44, False, 100000000),
(45, True, 826),
(46, True, 4),
(47, True, 15),
(48, False, 100000000),
(49, False, 100000000),
(50, True, 10),
(51, True, 2),
(52, True, 20),
(53, True, 14),
(54, True, 70),
(55, False, 100000000),
(56, True, 29),
(57, False, 100000000),
(58, True, 2),
(59, False, 100000000),
(60, True, 16),
(61, True, 368),
(62, True, 2),
(63, True, 194),
(64, True, 2),
(65, True, 2),
(66, True, 5),
(67, True, 2),
(68, True, 2),
(69, True, 150),
(70, True, 20),
(71, True, 21967),
(72, False, 100000000),
(73, True, 5),
(74, True, 29),
(75, True, 2),
(76, False, 100000000),

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( 77, False, 10000000),
( 78, True, 10095),
( 79, False, 10000000),
( 80, True, 11),
( 81, False, 10000000),
( 82, True, 2),
( 83, True, 14),
( 84, True, 200),
( 85, True, 101),
( 86, True, 6),
( 87, True, 2),
( 88, False, 10000000),
( 89, True, 4),
( 90, False, 10000000),
( 91, True, 2),
( 92, True, 1191),
( 93, False, 10000000),
( 94, True, 20),
( 95, True, 132),
( 96, True, 59901),
( 97, False, 10000000),
( 98, True, 2),
( 99, True, 73269),
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Total number of recurrent walks: 68

Lengths of recurrent walks: [2, 2, 2, 8, 2, 9, 2, 122, 43, 7, 2, 2, 312194, 129, 2, 2, 2724170, 6, 4, 2, 2, 2, 2, 11165899, 2, 478, 2, 826, 4, 15, 10, 2, 20, 14, 70, 29, 2, 16, 368, 2, 194, 2, 2, 5, 2, 2, 150, 20, 21967, 5, 29, 2, 10095, 11, 2, 14, 200, 101, 6, 2, 4, 2, 1191, 20, 132, 59901, 2, 73269]

Endpoints of non-recurrent walks: [Cell('22020020222', '10120121200'), Cell('02000012201', '20101002220'), Cell('20202122120', '20011020222'), Cell('20200002100', '02100221212'), Cell('2020022100020', '2021122020221'), Cell('2020010210111', '2022202202020'), Cell('2102000100202', '2021200200102'), Cell('2022000202020', '2020211200200'), Cell('10222121022', '21011010022'), Cell('10200202201', '02221102112'), Cell('11011112001', '22022001212'), Cell('02202200020', '20012012021'), Cell('12002200111', '20121021002'), Cell('2100020122220', '2020111011011'), Cell('2022111122020', '2021022010012'), Cell('02120010222', '21010101022'), Cell('21020000220', '12122002122'), Cell('22021000220', '02002101100'), Cell('2100000212112', '2020010121221'), Cell('21100122210', '20001020020'), Cell('2020200210122', '2012221121201'), Cell('01100120011', '02000200020'), Cell('12120212021', '20011002110'), Cell('2020021122211', '2001210201100'), Cell('21110200221', '12021020222'), Cell('21021220200', '12110001012'), Cell('20210222211', '12202102200'), Cell('20022001220', '20120222020'), Cell('2022022200002', '2101022111011'), Cell('2021202112221', '2022200220100'), Cell('20201120200', '10020001211'),

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Cell('10201202212', '21120102202']
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