

Vaughan Jones gave me an early Version of his braid list and commented that there may still be errors. I have no later version. Nr 166 and Nr 201 cannot be correct because they can be made with fewer crossings. I checked that Nr. 201 is the only braid with more than one component. In Nr. 166 I changed the last 2 to -2 to obtain a knot with minimal number of crossings = 10, but it may still not be the intended knot. (H.Karcher) https://en.wikipedia.org/wiki/List_of_prime_knots

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braidList[1] = '111'; braidList[2] = '1-21-2'; braidList[3] = '11111';
braidList[4] = '1122-12'; braidList[5] = '-12-13-232'; braidList[6] = '-12-1222'; braidList[7] = '-122-1-12';
braidList[8] = '1111111'; braidList[9] = '3211233-2-1'; braidList[10] = '1-2122222';
braidList[11] = '11233-12-32';
braidList[12] = '111-21222'; braidList[13] = '1-2-1-132223'; braidList[14] = '1-32-32-12-32';
// 7_7 (14 knots);
braidList[15] = '-123-2-14432-4'; braidList[16] = '-122222-12'; braidList[17] = '-2-43-1-144-213';
braidList[18] = '1113-2-3-31-2'; braidList[19] = '111-2111-2'; braidList[20] = '-12-1-322233';
braidList[21] = '1111-2-21-2'; braidList[22] = '-1211-322-3-3';
braidList[23] = '2-1-1-1222-1'; braidList[24] = '-122-1-1222'; braidList[25] = '-122-3233-12';
braidList[26] = '3-43-42-31-21-2'; braidList[27] = '112-32-1-3-32'; braidList[28] = '1122-1-32-32';
braidList[29] = '11-2133223'; braidList[30] = '11-211-21-2'; braidList[31] = '2-122-1-12-1';
braidList[32] = '1-21-21-21-2'; braidList[33] = '12121221'; braidList[34] = '1112-1-1-12';
braidList[35] = '111-2-1-1-1-2';
// 8_21 (35 knots);
braidList[36] = '111111111'; braidList[37] = '1234443-421-3-2'; braidList[38] = '1-211111122';
braidList[39] = '-1321123333-2'; braidList[40] = '112-13-23443-42'; braidList[41] = '112211111-2';
braidList[42] = '111233-1222-3'; braidList[43] = '1-23-1-1-43-23343';
braidList[44] = '111-2111122'; braidList[45] = '-1211222-3233'; braidList[46] = '-12-32-1222232';
braidList[47] = '1-2-1-1-3222443-4'; braidList[48] = '112-32-133222'; braidList[49] = '144-32-32-3-1-4223-2';
// 9_14 (49 knots);
braidList[50] = '1-213-24-3443'; braidList[51] = '111222-1222'; braidList[52] = '1113-21-2-3-21-2';
braidList[53] = '113221-3-2-31122';
braidList[54] = '112-1-3-4-32-324-3'; braidList[55] = '122-32-12-3222'; braidList[56] = '-1-13-43-2134422';
braidList[57] = '1-2333-23-1-23-2'; braidList[58] = '1-21123332-32'; braidList[59] = '133-213-2-2-2';
braidList[60] = '-12-1-4-324434422-3'; braidList[61] = '-122232-12-1-32'; braidList[62] = '-12-1-1-32-12232';
braidList[63] = '1133-2-213-2'; braidList[64] = '-12-32-12-322'; braidList[65] = '-1-122-32-12-31-2';
braidList[66] = '-122-322-123-12';
braidList[67] = '-123-12-1332-32'; braidList[68] = '-1-1-12-12231-23'; braidList[69] = '1-23-21-231-2';
// 9_34;
braidList[70] = '133-4-212332-34-32'; braidList[71] = '-1222-3233-123'; braidList[72] = '1-23-23-14-3-243-2';
braidList[73] = '1123322-12-32'; braidList[74] = '-1-32433-12234-2'; braidList[75] = '13-231-213-2';
braidList[76] = '-122-43-4-21-323-432'; braidList[77] = '1113-23-1-1-2'; braidList[78] = '1211223-21-2-3';
braidList[79] = '-12-13-2322-3'; braidList[80] = '1-2132223-2'; braidList[81] = '132-1-3213-2'; braidList[82] = '-123-12-1232';
braidList[83] = '11-2322-1-32-32'; braidList[84] = '112232-1223-2';
// 9_49;
braidList[85] = '11-4-5-32-134-5432'; braidList[86] = '1-21111111-2'; braidList[87] = '1-3-21-5-523-4532-4';
braidList[88] = '11-4-4-423-2-1-432'; braidList[89] = '-1-12-1222222'; braidList[90] = '1-23-1-2-13222222';
braidList[91] = '1-3-2123-43-4332'; braidList[92] = '111113-21-3-3-2'; braidList[93] = '-1-1-12-122222';
braidList[94] = '-1-3433211-32-4-32-3'; braidList[95] = '-1-1-3-214333-234'; braidList[96] = '-1-12-1332222-3';
braidList[97] = '11-32-1-345543-5-2-2-4'; braidList[98] = '-12-1332222-32'; braidList[99] = '-13-23333-2-1-12';
braidList[100] = '1-2-1-13-2-434433'; braidList[101] = '1111-21-2-2-2-2'; braidList[102] = '13344-3-24-1-13-2';
// 10_18;
braidList[103] = '-1-1-213333-23-2'; braidList[104] = '-1-32223443-4-12'; braidList[105] = '-12-1332-32222';
braidList[106] = '-1-1-1233-1222-3'; braidList[107] = '-12-1222-32-133'; braidList[108] = '-12-3221123-43-4';
braidList[109] = '-133222-322-12'; braidList[110] = '122-3-2-2-21-2113-2'; braidList[111] = '-1-12-323333-12';
// 10_27;
braidList[112] = '112-32-1-43-4-432'; braidList[113] = '1-23-43-2-1-23-24333';
braidList[114] = '112-32-1334-32-3-42'; braidList[115] = '1122-14-3-4-4-32-3';
braidList[116] = '-12-3211-3-3-322'; braidList[117] = '3441-23-43-2-1-1-2';
braidList[118] = '-1-4-433211-4-323'; braidList[119] = '-12-32-34-54-51-23-422';
braidList[120] = '11-3223-43-4-132'; braidList[121] = '2-4-4-3-3-142211-3';
braidList[122] = '-1-12214-322-34433-2-3'; braidList[123] = '-12-1222-32333';
braidList[124] = '112-122-321-3-3'; braidList[125] = '1-23-2-1-43-2343-233';
braidList[126] = '1-2-1-13-4223-4-43'; braidList[127] = '-12-3-42-3-312-3-4322';
braidList[128] = '-1-23-234412-3-2-243';
// 10_44;
braidList[129] = '21-32-324-1-32-32-4-3'; braidList[130] = '-122222-1222'; braidList[131] = '11111-211-2-2';
braidList[132] = '-1-12222-1-1-12'; braidList[133] = '1111322231-2'; braidList[134] = '-122-3233-1222';
// 10_50(134);
braidList[135] = '112-3-3-122-322'; braidList[136] = '-1-1-233-23331-2';
braidList[137] = '1-23342-133-23-14422';
braidList[138] = '-1-1-233-2333-12'; braidList[139] = '-1434211233-43-2'; braidList[140] = '-12233-23-1222';
braidList[141] = '1112-3-3-122-32'; braidList[142] = '12-54-32-3-4-51-234';
braidList[143] = '1224-1-1-34-3-2344-3';

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braidList[144] = '-1-1221-23-43-23-243'; braidList[145] = '1-2-1-1333-2333'; braidList[146] = '-1-1222-12222';
braidList[147] = '11233-14-3-234432'; braidList[148] = '-1-1-1222-1222';
braidList[149] = '13223-1-2333-1-2-2';
// 10_65';
braidList[150] = '112-3221-233332'; braidList[151] = '-12-4-32-41133224-3';
braidList[152] = '-12-34411-2322-4-3-3'; braidList[153] = '1342-34-2-2-1-13222';
braidList[154] = '1-2333-1-122-43-4'; braidList[155] = '11-4-4-2-322-3-423-12';
braidList[156] = '111-2112-32-32'; braidList[157] = '1-2331-43-2343-2';
braidList[158] = '-142-32-4-3211-4332';
// 10_74';
braidList[159] = '1-213-2343-23-4-2'; braidList[160] = '11-2-1333-21-2333';
braidList[161] = '-1222-3-31122-3'; braidList[162] = '-1-143-2133-432223'; braidList[163] = '111-2-211-2-2-2';
braidList[164] = '112-322-1222322'; braidList[165] = '433442-3-1-2-2-1-1'; braidList[166] = '1111-2-21-21-2';
braidList[167] = '-12-32-3-32112-3'; braidList[168] = '11122-32-1-32-3'; braidList[169] = '-122-12-12222';
braidList[170] = '112-322-32-1-32'; braidList[171] = '111-32-3-12-32-3';
braidList[172] = '11-2-431-23-24-3-12-3'; braidList[173] = '12-32-142-324-34';
braidList[174] = '113-2-211-21-23-1-2';
braidList[175] = '111-2-21-2-21-2'; braidList[176] = '11122-32-12-32'; braidList[177] = '-1-133-231-233-2';
braidList[178] = '111-211-2-21-2'; braidList[179] = '-1-12-32-122332'; braidList[180] = '12-34213-2-3-34-3';
// 10_96';
braidList[181] = '11-23-422-1-3233-42'; braidList[182] = '-122332-122-32'; braidList[183] = '-1-12-1-122-122';
braidList[184] = '111-211-211-2'; braidList[185] = '-1322143222334-3-1-2';
braidList[186] = '122-32-1-321-3-3';
// 10_102';
braidList[187] = '1122-322-3-12-3'; braidList[188] = '11-2-2-211-21-2';
braidList[189] = '-1-23-2413-23344-3-2'; braidList[190] = '111-2-211-21-2';
braidList[191] = '143-2334-3-2-2-1-23-2'; braidList[192] = '-1-133-2133-23-2';
braidList[193] = '2-1-122-1-122-1'; braidList[194] = '1-32-3-432221-2-3-42'; braidList[195] = '1122-322-12-32';
braidList[196] = '111-21-21-21-2'; braidList[197] = '1112-32-12-32-3'; braidList[198] = '-1-23-23-2-211-3233';
braidList[199] = '1233-2-1-2-24-1-32-34-34'; braidList[200] = '11-21-21-211-2';
braidList[201] = '-12-32-1-12-32-3'; braidList[202] = '1-211-21-2-21-2'; braidList[203] = '112-3-32-1-32-32';
braidList[204] = '1223-413-23-144332-3';
// 10_120';
braidList[205] = '-12-32-32112-32'; braidList[206] = '1-23-23-2-1-232-122'; braidList[207] = '1-21-21-21-21-2';
braidList[208] = '1222221222'; braidList[209] = '-1-2-2-2-122222'; braidList[210] = '1-2-2-2122222';
braidList[211] = '111112-1-122';
braidList[212] = '11322322-132'; braidList[213] = '-1-13-2-232213-2'; braidList[214] = '-12-3-3-3211233';
// 10_130';
braidList[215] = '-123332112-3-3'; braidList[216] = '-1223-2-212231-2-3';
braidList[217] = '-13233211-3-21-32'; braidList[218] = '122122232-122-3';
braidList[219] = '1223-2-1-1-1-233'; braidList[220] = '112-32-122-3-2-2';
braidList[221] = '113-21-23-1-43-23-24'; braidList[222] = '113-21-234-1-32-32-4';
braidList[223] = '1122211212'; braidList[224] = '1-21-3-3-323332'; braidList[225] = '-1-1-1211-2112';
braidList[226] = '-13332333112'; braidList[227] = '-122-1-121122';
braidList[228] = '11322-12-3-31-2'; braidList[229] = '112-1-3213223'; braidList[230] = '11-2-3-3221-23-2';
// 10_146';
braidList[231] = '-1-2-2332211-2-1-32'; braidList[232] = '11222-1-12-12'; braidList[233] = '-1-122211122';
braidList[234] = '112232-1-233-2'; braidList[235] = '11-32213-2-2-32'; braidList[236] = '1122211122';
braidList[237] = '112-3-3-2-21-322'; braidList[238] = '1-2332211322'; braidList[239] = '1112-1-12-1-12';
braidList[240] = '-123223-1-12-32'; braidList[241] = '-12211-21122'; braidList[242] = '1123-1-2-23-2-23';
braidList[243] = '1-21-212221-2'; braidList[244] = '123311-21-21-3'; braidList[245] = '-1211222112';
braidList[246] = '-1-13-2331223-2'; braidList[247] = '1-23-1211-21-23'; braidList[248] = '1-2-3-31221-23-2';
braidList[249] = '112-32-1233-12';