

MSQ-CC-LRE V2

MotionSeQuencer for ControlChanges

for 2xLRE8x2 Boards

for 1x LRE5-LCD2 Boards

Synth-Patch-Editor & Motion-Sequencer 4 ControlChange (= CC-Automation)

Introduction

Controls and automate a Nord Drum2 (Drum-Synth)[NORD DRUM 2](#)

It acts as:

- **Midi Merger** NTE,CLK,PC merge with CC... - **Patch Manager** it replaces the Synths internal Patch Storage, each PC Number from your Sequencer is added by the BANK CC (CC 32), where each Nr is ADD 128 PC Numbers more...
- **Motion Sequencer** Record your Controller Movements in a Sequence in 32th Resultion @ maximal 256 Steps length

Features

- **Remote your Synths** by: 8x Midichannels with up to 32x Control Change (CC)
- **Save the Patches** and dump it to Synth
- **Load hundrets of Patches** via received Program Change + the Bank-CC (CC32)
- **Save Patches** vie CC24 + CC value 0-127... when sending before a BankCC32 you can expand that to 128x128 patches
- **Record CC-Motion-Sequences - PLAY Motions-Sequences** up to 256 steps @ 32th rate -
- VELOCITY MORPH** Add Velocity-Ammount to CCs
- **MERGE** incoming Midi-Notes/Clock/Pitchbend with Automated CCs
- **Set Sequencer Beatstructure** - how to interpret Clock-ticks (4/4, 5/4, 6/4, 7/4...) - CC23
- **Global Page:** for example you use 8 simular Drum-Voices, with the Global you have 8 channel strips with dedicated Controlls, for example:
8xVolume, 8xTone/Noise-Mix, 8xDistortion, 8xClick
if you have one Synth over 2xMSQ_CC_LRE Tracks(booth set to MidiChannel 0, to get 64CCs instead of 32), then the Global Page: have the ability to show/edit a parameter from Track1Voice on Track1Global, and from Track2Voice on Track2Global... it depends how you set the Midichannel in the Systemsettings (which are hardcodet but via Mapping Array changeable)
- for one multipart-synth, MSQ_CC_LRE do all the Preset Store, and Automations, so it is one Unit > to use the Unit in a other way would make all the Patches (128x128 patches) useless, so once done, its bound to it, load all with Programchange! minimal is better here, there will be other **MSQs** outthere see [MSQ-CC-BCR](#)

Hardware Requirements

External Requirement:(for example)

- Melody/Clock Source with ProgramChange-Output: [midibox_seq_v4l](#) oops that dont do PC...
- Melody/Clock Destination: NordDrum 2

Midibox:

- 1x [core32](#)
- 1x [LRE5-LCD2](#)
- 2x [mb-lre8x2cs_pcb](#)
- 8x [LRE-OLED-Bar](#) AND 2x Frontpanel for Eurorack
- 17x SSD1306 OLED Screens (smalles variant, 7 Pin)
- 1x DINX4
- 1x [1xMidi IO](#) or 1x [Euro-Midi-IO](#)
- SD-Card, formated with FAT32
- Soldering Iron, Wires, PCB....
- USB Power Supply

Setting

Cabeling MIDI

MidilO PortB Out »> Synth Midi IN

MidilO PortB In »> Clock+Notes

Cabeling Modules



Frontpanels

MBHP

see [LRE-OLED-Bar](#)

Software

Firmware

V1. from 9.05.2018[msq_cc_lre_v0.norddrum2.zip](#)
hardcodet for a NordDrum2 - but change-able in Mapping via a Array in Sourcecode:
this is the mapping which says wich of the 32 internal CCs are one of the outhternal CCs (0-127):

```
// 4 CC Route Mode = 0 // In Synthesizer  
const u8 CC_Map0[128] = { // CC Map0 (Part) [Internal CC Nr] = value of external CC =>  
// CC Map0 (RadioChannel) [Remote/Source] = Value of Synth/Destination  
// 1st Row Horizontal // 2nd Row Horizontal // 3rd Row Horizontal // 4th Row Horizontal  
// CC-on-LRE: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31  
{ 57, 56, 54, 23, 26, 25, 108, 7, 25, 17, 14, 16, 18, 19, 20, 21, 46, 52, 53, 47, 48, 54, 55, 254, 50, 51, 49, 38, 58, 255, 255, 255, // Nord Drum 2 Voice 1 MudiCh 7  
{ 57, 56, 54, 23, 26, 25, 108, 7, 25, 17, 14, 16, 18, 19, 20, 21, 46, 52, 53, 47, 48, 54, 55, 254, 50, 51, 49, 38, 58, 255, 255, 255, // Nord Drum 2 Voice 2 MudiCh 8  
{ 57, 56, 54, 23, 26, 25, 108, 7, 25, 17, 14, 16, 18, 19, 20, 21, 46, 52, 53, 47, 48, 54, 55, 254, 50, 51, 49, 38, 58, 255, 255, 255, // Nord Drum 2 Voice 3 MudiCh 9  
{ 57, 56, 54, 23, 26, 25, 108, 7, 25, 17, 14, 16, 18, 19, 20, 21, 46, 52, 53, 47, 48, 54, 55, 254, 50, 51, 49, 38, 58, 255, 255, 255, // Nord Drum 2 Voice 4 MudiCh 10  
{ 57, 56, 54, 23, 26, 25, 108, 7, 25, 17, 14, 16, 18, 19, 20, 21, 46, 52, 53, 47, 48, 54, 55, 254, 50, 51, 49, 38, 58, 255, 255, 255, // Nord Drum 2 Voice 5 MudiCh 11  
{ 57, 56, 54, 23, 26, 25, 108, 7, 25, 17, 14, 16, 18, 19, 20, 21, 46, 52, 53, 47, 48, 54, 55, 254, 50, 51, 49, 38, 58, 255, 255, 255, // Nord Drum 2 Voice 6 MudiCh 12  
{ 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, // not in Use  
{ 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, 255, // not in Use
```

This Mapping says which one of the 32 internal CCs are positioniered in the Mixer/Overview/Channelstrip-Mode

```
// 4 CC Route Mode = 1: = 8x ChannelStrip
const ad CC_Map[8][32] = { //CC_Map1 (Active_Strip_Set) [CC to rump to Map0]
  // 1st Row Horizontal
  { 1, 8, 15, 22, 29, 36, 43, 50, 57, 64, 71, 78, 85, 92, 99, 106, 113, 120, 127, 134, 141, 148, 155, 162, 169, 176, 183, 190, 197, 204, 211, 218, 225, 232, 239, 246, 253, 260, 267, 274, 281, 288, 295, 302, 309, 316, 323, 330, 337, 344, 351, 358, 365, 372, 379, 386, 393, 400, 407, 414, 421, 428, 435, 442, 449, 456, 463, 470, 477, 484, 491, 498, 505, 512, 519, 526, 533, 540, 547, 554, 561, 568, 575, 582, 589, 596, 603, 610, 617, 624, 631, 638, 645, 652, 659, 666, 673, 680, 687, 694, 701, 708, 715, 722, 729, 736, 743, 750, 757, 764, 771, 778, 785, 792, 799, 806, 813, 820, 827, 834, 841, 848, 855, 862, 869, 876, 883, 890, 897, 904, 911, 918, 925, 932, 939, 946, 953, 960, 967, 974, 981, 988, 995, 1002, 1009, 1016, 1023, 1030, 1037, 1044, 1051, 1058, 1065, 1072, 1079, 1086, 1093, 1100, 1107, 1114, 1121, 1128, 1135, 1142, 1149, 1156, 1163, 1170, 1177, 1184, 1191, 1198, 1205, 1212, 1219, 1226, 1233, 1240, 1247, 1254, 1261, 1268, 1275, 1282, 1289, 1296, 1303, 1310, 1317, 1324, 1331, 1338, 1345, 1352, 1359, 1366, 1373, 1380, 1387, 1394, 1401, 1408, 1415, 1422, 1429, 1436, 1443, 1450, 1457, 1464, 1471, 1478, 1485, 1492, 1499, 1506, 1513, 1520, 1527, 1534, 1541, 1548, 1555, 1562, 1569, 1576, 1583, 1590, 1597, 1604, 1611, 1618, 1625, 1632, 1639, 1646, 1653, 1660, 1667, 1674, 1681, 1688, 1695, 1702, 1709, 1716, 1723, 1730, 1737, 1744, 1751, 1758, 1765, 1772, 1779, 1786, 1793, 1800, 1807, 1814, 1821, 1828, 1835, 1842, 1849, 1856, 1863, 1870, 1877, 1884, 1891, 1898, 1905, 1912, 1919, 1926, 1933, 1940, 1947, 1954, 1961, 1968, 1975, 1982, 1989, 1996, 2003, 2010, 2017, 2024, 2031, 2038, 2045, 2052, 2059, 2066, 2073, 2080, 2087, 2094, 2101, 2108, 2115, 2122, 2129, 2136, 2143, 2150, 2157, 2164, 2171, 2178, 2185, 2192, 2199, 2206, 2213, 2220, 2227, 2234, 2241, 2248, 2255, 2262, 2269, 2276, 2283, 2290, 2297, 2304, 2311, 2318, 2325, 2332, 2339, 2346, 2353, 2360, 2367, 2374, 2381, 2388, 2395, 2402, 2409, 2416, 2423, 2430, 2437, 2444, 2451, 2458, 2465, 2472, 2479, 2486, 2493, 2500, 2507, 2514, 2521, 2528, 2535, 2542, 2549, 2556, 2563, 2570, 2577, 2584, 2591, 2598, 2605, 2612, 2619, 2626, 2633, 2640, 2647, 2654, 2661, 2668, 2675, 2682, 2689, 2696, 2703, 2710, 2717, 2724, 2731, 2738, 2745, 2752, 2759, 2766, 2773, 2780, 2787, 2794, 2801, 2808, 2815, 2822, 2829, 2836, 2843, 2850, 2857, 2864, 2871, 2878, 2885, 2892, 2899, 2906, 2913, 2920, 2927, 2934, 2941, 2948, 2955, 2962, 2969, 2976, 2983, 2990, 2997, 3004, 3011, 3018, 3025, 3032, 3039, 3046, 3053, 3060, 3067, 3074, 3081, 3088, 3095, 3102, 3109, 3116, 3123, 3130, 3137, 3144, 3151, 3158, 3165, 3172, 3179, 3186, 3193, 3200, 3207, 3214, 3221, 3228, 3235, 3242, 3249, 3256, 3263, 3270, 3277, 3284, 3291, 3298, 3305, 3312, 3319, 3326, 3333, 3340, 3347, 3354, 3361, 3368, 3375, 3382, 3389, 3396, 3403, 3410, 3417, 3424, 3431, 3438, 3445, 3452, 3459, 3466, 3473, 3480, 3487, 3494, 3501, 3508, 3515, 3522, 3529, 3536, 3543, 3550, 3557, 3564, 3571, 3578, 3585, 3592, 3599, 3606, 3613, 3620, 3627, 3634, 3641, 3648, 3655, 3662, 3669, 3676, 3683, 3690, 3697, 3704, 3711, 3718, 3725, 3732, 3739, 3746, 3753, 3760, 3767, 3774, 3781, 3788, 3795, 3802, 3809, 3816, 3823, 3830, 3837, 3844, 3851, 3858, 3865, 3872, 3879, 3886, 3893, 3900, 3907, 3914, 3921, 3928, 3935, 3942, 3949, 3956, 3963, 3970, 3977, 3984, 3991, 3998, 4005, 4012, 4019, 4026, 4033, 4040, 4047, 4054, 4061, 4068, 4075, 4082, 4089, 4096, 4103, 4110, 4117, 4124, 4131, 4138, 4145, 4152, 4159, 4166, 4173, 4180, 4187, 4194, 4201, 4208, 4215, 4222, 4229, 4236, 4243, 4250, 4257, 4264, 4271, 4278, 4285, 4292, 4299, 4306, 4313, 4320, 4327, 4334, 4341, 4348, 4355, 4362, 4369, 4376, 4383, 4390, 4397, 4404, 4411, 4418, 4425, 4432, 4439, 4446, 4453, 4460, 4467, 4474, 4481, 4488, 4495, 4502, 4509, 4516, 4523, 4530, 4537, 4544, 4551, 4558, 4565, 4572, 4579, 4586, 4593, 4600, 4607, 4614, 4621, 4628, 4635, 4642, 4649, 4656, 4663, 4670, 4677, 4684, 4691, 4698, 4705, 4712, 4719, 4726, 4733, 4740, 4747, 4754, 4761, 4768, 4775, 4782, 4789, 4796, 4803, 4810, 4817, 4824, 4831, 4838, 4845, 4852, 4859, 4866, 4873, 4880, 4887, 4894, 4901, 4908, 4915, 4922, 4929, 4936, 4943, 4950, 4957, 4964, 4971, 4978, 4985, 4992, 5000, 5007, 5014, 5021, 5028, 5035, 5042, 5049, 5056, 5063, 5070, 5077, 5084, 5091, 5098, 5105, 5112, 5119, 5126, 5133, 5140, 5147, 5154, 5161, 5168, 5175, 5182, 5189, 5196, 5203, 5210, 5217, 5224, 5231, 5238, 5245, 5252, 5259, 5266, 5273, 5280, 5287, 5294, 5301, 5308, 5315, 5322, 5329, 5336, 5343, 5350, 5357, 5364, 5371, 5378, 5385, 5392, 5399, 5406, 5413, 5420, 5427, 5434, 5441, 5448, 5455, 5462, 5469, 5476, 5483, 5490, 5497, 5504, 5511, 5518, 5525, 5532, 5539, 5546, 5553, 5560, 5567, 5574, 5581, 5588, 5595, 5602, 5609, 5616, 5623, 5630, 5637, 5644, 5651, 5658, 5665, 5672, 5679, 5686, 5693, 5700, 5707, 5714, 5721, 5728, 5735, 5742, 5749, 5756, 5763, 5770, 5777, 5784, 5791, 5798, 5805, 5812, 5819, 5826, 5833, 5840, 5847, 5854, 5861, 5868, 5875, 5882, 5889, 5896, 5903, 5910, 5917, 5924, 5931, 5938, 5945, 5952, 5959, 5966, 5973, 5980, 5987, 5994, 6001, 6008, 6015, 6022, 6029, 6036, 6043, 6050, 6057, 6064, 6071, 6078, 6085, 6092, 6099, 6106, 6113, 6120, 6127, 6134, 6141, 6148, 6155, 6162, 6169, 6176, 6183, 6190, 6197, 6204, 6211, 6218, 6225, 6232, 6239, 6246, 6253, 6260, 6267, 6274, 6281, 6288, 6295, 6302, 6309, 6316, 6323, 6330, 6337, 6344, 6351, 6358, 6365, 6372, 6379, 6386, 6393, 6400, 6407, 6414, 6421, 6428, 6435, 6442, 6449, 6456, 6463, 6470, 6477, 6484, 6491, 6498, 6505, 6512, 6519, 6526, 6533, 6540, 6547, 6554, 6561, 6568, 6575, 6582, 6589, 6596, 6603, 6610, 6617, 6624, 6631, 6638, 6645, 6652, 6659, 6666, 6673, 6680, 6687, 6694, 6701, 6708, 6715, 6722, 6729, 6736, 6743, 6750, 6757, 6764, 6771, 6778, 6785, 6792, 6799, 6806, 6813, 6820, 6827, 6834, 6841, 6848, 6855, 6862, 6869, 6876, 6883, 6890, 6897, 6904, 6911, 6918, 6925, 6932, 6939, 6946, 6953, 6960, 6967, 6974, 6981, 6988, 6995, 7002, 7009, 7016, 7023, 7030, 7037, 7044, 7051, 7058, 7065, 7072, 7079, 7086, 7093, 7100, 7107, 7114, 7121, 7128, 7135, 7142, 7149, 7156, 7163, 7170, 7177, 7184, 7191, 7198, 7205, 7212, 7219, 7226, 7233, 7240, 7247, 7254, 7261, 7268, 7275, 7282, 7289, 7296, 7303, 7310, 7317, 7324, 7331, 7338, 7345, 7352, 7359, 7366, 7373, 7380, 7387, 7394, 7401, 7408, 7415, 7422, 7429, 7436, 7443, 7450, 7457, 7464, 7471, 7478, 7485, 7492, 7499, 7506, 7513, 7520, 7527, 7534, 7541, 7548, 7555, 7562, 7569, 7576, 7583, 7590, 7597, 7604, 7611, 7618, 7625, 7632, 7639, 7646, 7653, 7660, 7667, 7674, 7681, 7688, 7695, 7702, 7709, 7716, 7723, 7730, 7737, 7744, 7751, 7758, 7765, 7772, 7779, 7786, 7793, 7800, 7807, 7814, 7821, 7828, 7835, 7842, 7849, 7856, 7863, 7870, 7877, 7884, 7891, 7898, 7905, 7912, 7919, 7926, 7933, 7940, 7947, 7954, 7961, 7968, 7975, 7982, 7989, 7996, 8003, 8010, 8017, 8024, 8031, 8038, 8045, 8052, 8059, 8066, 8073, 8080, 8087, 8094, 8101, 8108, 8115, 8122, 8129, 8136, 8143, 8150, 8157, 8164, 8171, 8178, 8185, 8192, 8199, 8206, 8213, 8220, 8227, 8234, 8241, 8248, 8255, 8262, 8269, 8276, 8283, 8290, 8297, 8304, 8311, 8318, 8325, 8332, 8339, 8346, 8353, 8360, 8367, 8374, 8381, 8388, 8395, 8402, 8409, 8416, 8423, 8430, 8437, 8444, 8451, 8458, 8465, 8472, 8479, 8486, 8493, 8500, 8507, 8514, 8521, 8528, 8535, 8542, 8549, 8556, 8563, 8570, 8577, 8584, 8591, 8598, 8605, 8612, 8619, 8626, 8633, 8640, 8647, 8654, 8661, 8668, 8675, 8682, 8689, 8696, 8703, 8710, 8717, 8724, 8731, 8738, 8745, 8752, 8759, 8766, 8773, 8780, 8787, 8794, 8801, 8808, 8815, 8822, 8829, 8836, 8843, 8850, 8857, 8864, 8871, 8878, 8885, 8892, 8899, 8906, 8913, 8920, 8927, 8934, 8941, 8948, 8955, 8962, 8969, 8976, 8983, 8990, 8997, 9004, 9011, 9018, 9025, 9032, 9039, 9046, 9053, 9060, 9067, 9074, 9081, 9088, 9095, 9102, 9109, 9116, 9123, 9130, 9137, 9144, 9151, 9158, 9165, 9172, 9179, 9186, 9193, 9200, 9207, 9214, 9221, 9228, 9235, 9242, 9249, 9256, 9263, 9270, 9277, 9284, 9291, 9298, 9305, 9312, 9319, 9326, 9333, 9340, 9347, 9354, 9361, 9368, 9375, 9382, 9389, 9396, 9403, 9410, 9417, 9424, 9431, 9438, 9445, 9452, 9459, 9466, 9473, 9480, 9487, 9494, 9501, 9508, 9515, 9522, 9529, 9536, 9543, 9550, 9557, 9564, 9571, 9578, 9585, 9592, 9599, 9606, 9613, 9620, 9627, 9634, 9641, 9648, 9655, 9662, 9669, 9676, 9683, 9690, 9697, 9704, 9711, 9718, 9725, 9732, 9739, 9746, 9753, 9760, 9767, 9774, 9781, 9788, 9795, 9802, 9809, 9816, 9823, 9830, 9837, 9844, 9851, 9858, 9865, 9872, 9879, 9886, 9893, 9900, 9907, 9914, 9921, 9928, 9935, 9942, 9949, 9956, 9963, 9970, 9977, 9984, 9991, 9998, 10005, 10012, 10019, 10026, 10033, 10040, 10047, 10054, 10061, 10068, 10075, 10082, 10089, 10096, 10103, 10110, 10117, 10124, 10131, 10138, 10145, 10152, 10159, 10166, 10173, 10180, 10187, 10194, 10201, 10208, 10215, 10222, 10229, 10236, 10243, 10250, 10257, 10264, 10271, 10278, 10285, 10292, 10299, 10306, 10313, 10320, 10327, 10334, 10341, 10348, 10355, 10362, 10369, 10376, 10383, 10390, 10397, 10404, 10411, 10418, 10425, 10432, 10439, 10446, 10453, 10460, 10467, 10474, 10481, 10488, 10495, 10502, 10509, 10516, 10523, 10530, 10537, 10544, 10551, 10558, 10565, 10572, 10579, 10586, 10593, 10600, 10607, 10614, 10621, 10628, 10635, 10642, 10649, 10656, 10663, 10670, 10677, 10684, 10691, 10698, 10705, 10712, 10719, 10726, 10733, 10740, 10747, 10754, 10761, 10768, 10775, 10782, 10789, 10796, 10803, 10810, 10817, 10824, 10831, 10838, 10845, 10852, 10859, 10866, 10873, 10880, 10887, 10894, 10901, 10908, 10915, 10922, 10929, 10936, 10943, 10950, 10957, 10964, 10971, 10978, 10985, 10992, 10999, 11006, 11013, 11020, 11027, 11034, 11041, 11048, 11055, 11062, 11069, 11076, 11083, 11090, 11097, 11104, 11111, 11118, 11125, 11132, 11139, 11146, 11153, 11160, 11167, 11174, 11181, 11188, 11195, 11202, 11209, 11216, 11223, 11230, 11237, 11244, 11251, 11258, 11265, 11272, 11279, 11286, 11293, 11300, 11307, 11314, 11321, 11328, 11335, 11342, 11349, 11356, 11363, 11370, 11377, 11384, 11391, 11398, 11405, 11412, 11419, 11426, 11433, 11440, 11447, 11454, 11461, 11468, 11475, 11482, 11489, 11496, 11503, 11510, 11517, 11524, 11531, 11538, 11545, 11552, 11559, 11566, 11573, 11580, 11587, 11594, 11601, 11608, 11615, 11622, 11629, 11636, 11643, 11650, 11657, 11664, 11671, 11678, 11685, 11692, 11699, 11706, 11713, 11720, 11727, 11734, 11741, 11748, 11755, 11762, 11769, 11776, 11783, 11790, 11797, 11804, 11811, 11818, 11825, 11832, 11839, 11846, 11853, 11860, 11867, 11874, 11881, 11888, 11895, 11902, 11909, 11916, 11923, 11930, 11937, 11944, 11951, 11958, 11965, 11972, 11979, 11986, 11993, 12000, 12007, 12014, 12021, 12028, 12035, 12042, 12049, 12056, 12063, 12070, 12077, 12084, 12091, 12098, 12105, 12112, 12119, 12126, 12133, 12140, 12147, 12154, 12161, 12168, 12175, 12182, 12189, 12196, 12203, 12210, 12217, 12224, 12231, 12238, 12245, 12252, 12259, 12266, 12273, 12280, 12287, 12294, 12301, 12308, 12315, 12322, 12329, 12336, 12343, 12350, 12357, 12364, 12371, 12378, 12385, 12392, 12399, 12406, 12413, 12420, 12427, 12434, 12441, 12448, 12455, 12462, 12469, 12476, 12483, 12490, 12497, 12504, 12511, 12518, 12525, 12532, 12539, 12546, 12553, 12560, 12567, 12574, 12581, 12588, 12595, 12602, 12609, 12616, 12623, 12630, 12637, 12644, 12651, 12658, 12665, 12672, 12679, 12686, 12693, 12700, 12707, 12714, 12721, 12728, 12735, 12742, 12749, 12756, 12763, 12770, 12777, 12784, 12791, 12798, 12805, 12812, 12819, 12826, 12833, 12840, 12847, 12854, 12861, 12868, 12875, 12882, 12889, 12896, 12903, 12910, 12917, 12924, 12931, 12938, 12945, 12952, 12959, 12966, 12973, 12980, 12987, 12994, 13001, 13008, 13015, 13022, 13029, 13036, 13043, 13050, 13057, 13064, 13071, 13078, 13085, 13092, 13099, 13106, 13113, 13120, 13127, 13134, 13141, 13148, 13155, 13162, 13169, 13176, 13183, 13190, 13197, 13204, 13211, 13218, 13225, 13232, 13239, 13246, 13253, 13260, 13267, 13274, 13281, 13288, 13295, 13302, 13309, 13316, 13323, 13330, 13337, 13344, 13351, 13358, 13365, 13372, 13379, 13386, 13393, 13400, 13407, 13414, 13421, 13428, 13435, 13442, 13449, 13456, 13463, 13470, 13477, 13484, 13491, 13498, 13505, 13512, 13519, 13526, 13533, 13540, 13547, 13554, 13561, 13568, 13575, 13582, 13589, 13596, 13603, 13610, 13617, 13624, 13631, 13638, 13645, 13652, 13659, 13666, 13673, 13680, 13687, 13694, 13701, 13708, 13715, 13722, 
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