CRYPTOGRAPHY ASSIGNMENT – 1

1. Write a program to implement Extended Euclidean Algorithm and find multi-plicative inverse for following values.

A:- Program in C:-

#include <stdio.h>

void gcdExtended(int,int);

int main(int argc, char const \*argv[]){

int x,y;

printf("Enter a and m:-\n");

scanf("%d %d",&x,&y);

if (x==y||x<0||y<0)

{

printf("Multiplicative Inverse doesn't exist\n");

}

else if (x>y)

{

gcdExtended(x,y);

}

else{

gcdExtended(y,x);

}

return 0;

}

void gcdExtended(int a,int b){

int q,x,s=0,old\_s=1,t=1,old\_t=0,r=b,old\_r=a;

while(r!=0){

q = old\_r/r;

x = r;

r = old\_r-q\*r;

old\_r = x;

x = s;

s = old\_s-q\*s;

old\_s = x;

x = t;

t = old\_t-q\*t;

old\_t = x;

}

printf("%d = %d \* %d + %d \* %d\n",old\_r,old\_s,a,old\_t,b);

if (old\_r==1)

{

printf("Multiplicative Inverse exist\n");

if(old\_t<0){

old\_t=a+old\_t;

printf("Multiplicative Inverse of %d is %d\n",b,old\_t);

}

else

printf("Multiplicative Inverse of %d is %d\n",b,old\_t);

}

else

printf("Multiplicative inverse doesn't exist\n");

}

(a) 53947−1mod56211 - 7225

(b) 19385−1mod43159 - 28812

1. Write a program to determine the primitive elements ofZpand compute allprimitive elements of prime numbers 39877,31319 and 39869

A:-Program in Python3:-

k = int(input("Enter a prime number"))

for j in range(2,k):

a = {}

l = 0

for i in range(1,k):

a[j\*\*i%k] = 1

for i in range(1,k):

if( a.get(i ,0) != 0 ):

l+=1

if( l == k-1):

print(j)

**Primitive Elements of 39877 are 13288 primitive roots: -**2, 6, 7, 11, 15, 20, 21, 24, 31, 32, 33, 39, 45, 46, 50, 51, 52, 53, 54, 57, 59, 61, 67, 68, 70, 72, 74, 76, 79, 80, 84, 86, 87, 97, 101, 107, 110, 112, 113, 115, 116, 117, 124, 127, 128, 130, 132, 137, 139, 146, 150, 151, 153, 161, 162, 163, 166, 167, 170, 171, 173, 175, 176, 180, 181, 182, 183, 184, 185, 189, 190, 193, 199, 205, 206, 208, 212, 213, 215, 227, 233, 235, 236, 237, 238, 239, 240, 245, 246, 252, 253, 259, 261, 262, 266, 268, 272, 275, 277, 279, 280, 282, 284, 286, 288, 290, 291, 294, 296, 297, 299, 301, 304, 311, 314, 321, 327, 328, 338, 344, 345, 353, 358, 359, 367, 372, 374, 375, 376, 379, 381, 383, 384, 385, 390, 391, 392, 394, 396, 397, 404, 405, 406, 407, 414, 415, 417, 418, 419, 422, 434, 436, 437, 438, 439, 440, 442, 443, 445, 447, 448, 449, 452, 453, 455, 457, 461, 462, 464, 467, 468, 473, 477, 481, 494, 500, 503, 509, 510, 511, 514, 515, 525, 531, 533, 534, 538, 540, 541, 542, 543, 547, 548, 552, 555, 559, 566, 567, 570, 578, 581, 595, 596, 600, 603, 605, 607, 610, 611, 612, 613, 614, 616, 619, 624, 629, 630, 636, 637, 638, 639, 643, 644, 645, 646, 647, 648, 652, 655, 659, 662, 664, 665, 666, 667, 668, 677, 682, 683, 684, 687, 691, 692, 697, 703, 704, 708, 709, 710, 712, 715, 721, 722, 723, 726, 728, 731, 732, 733, 738, 742, 754, 761, 772, 773, 774, 775, 779, 785, 787, 789, 790, 796, 797, 799, 800, 802, 803, 804, 809, 811, 816, 817, 820, 823, 824, 825, 826, 827, 831, 833, 837, 840, 842, 846, 859, 861, 863, 864, 870, 877, 879, 881, 882, 883, 887, 888, 891, 893, 895, 897, 908, 909, 912, 913, 916, 917, 926, 929, 930, 931, 932, 933, 935, 939, 940, 948, 952, 955, 956, 958, 960, 964, 968, 970, 974, 975, 976, 977, 980, 981, 985, 986, 987, 990, 991, 994, 1001, 1008, 1012, 1013, 1014, 1015, 1017, 1019, 1029, 1031, 1032, 1033, 1036, 1044, 1045, 1048, 1052, 1053, 1059, 1063, 1064, 1070, 1073, 1077, 1079, 1090, 1095, 1097, 1099, 1101, 1102, 1114, 1115, 1119, 1125, 1126, 1133, 1136, 1137, 1142, 1144, 1146, 1148, 1150, 1154, 1157, 1164, 1166, 1167, 1171, 1172, 1173, 1183, 1189, 1191, 1202, 1204, 1212, 1213, 1215, 1223, 1231, 1233, 1240, 1242, 1245, 1247, 1249, 1250, 1252, 1253, 1255, 1256, 1262, 1264, 1266, 1270, 1271, 1275, 1280, 1283, 1284, 1285, 1291, 1298, 1300, 1301, 1302, 1303, 1307, 1309, 1311, 1312, 1316, 1317, 1320, 1325, 1326, 1329, 1338, 1339, 1341, 1344, 1350, 1353, 1356, 1361, 1363, 1365, 1372, 1377, 1379, 1380, 1383, 1386, 1390, 1392, 1402, 1403, 1404, 1405, 1411, 1414, 1415, 1421, 1425, 1431, 1432, 1441, 1443, 1449, 1453, 1454, 1457, 1458, 1460, 1463, 1467, 1474, 1475, 1477, 1481, 1482, 1486, 1487, 1488, 1490, 1492, 1493, 1494, 1496, 1497, 1499, 1502, 1503, 1504, 1506, 1510, 1513, 1514, 1519, 1524, 1525, 1526, 1528, 1531, 1532, 1533, 1535, 1536, 1539, 1540, 1543, 1545, 1547, 1551, 1552, 1553, 1556, 1557, 1560, 1562, 1563, 1568, 1569, 1573, 1576, 1577, 1582, 1584, 1585, 1586, 1590, 1593, 1595, 1602, 1613, 1614, 1617, 1621, 1624, 1626, 1628, 1633, 1637, 1638, 1641, 1642, 1644, 1647, 1668, 1672, 1675, 1676, 1677, 1682, 1685, 1686, 1691, 1697, 1699, 1700, 1703, 1706, 1707, 1709, 1712, 1727, 1729, 1733, 1734, 1735, 1737, 1741, 1744, 1745, 1750, 1751, 1752, 1770, 1777, 1780, 1784, 1785, 1789, 1791, 1796, 1797, 1799, 1800, 1804, 1809, 1810, 1812, 1817, 1821, 1823, 1828, 1831, 1836, 1838, 1840, 1845, 1846, 1850, 1851, 1854, 1859, 1868, 1869, 1871, 1882, 1883, 1886, 1887, 1890, 1892, 1894, 1897, 1900, 1902, 1918, 1922, 1923, 1929, 1932, 1933, 1934, 1938, 1942, 1944, 1956, 1957, 1965, 1966, 1969, 1975, 1981, 1983, 1984, 1986, 1992, 1994, 1995, 1996, 1998, 1999, 2000, 2001, 2004, 2008, 2010, 2012, 2015, 2017, 2022, 2023, 2027, 2031, 2032, 2036, 2040, 2041, 2043, 2045, 2046, 2048, 2052, 2054, 2056, 2057, 2061, 2068, 2074, 2076, 2078, 2080, 2082, 2084, 2086, 2089, 2092, 2094, 2097, 2099, 2100, 2109, 2112, 2113, 2115, 2120, 2122, 2127, 2129, 2130, 2132, 2133, 2135, 2139, 2142, 2145, 2149, 2150, 2151, 2153, 2155, 2156, 2160, 2162, 2164, 2165, 2166, 2167, 2169, 2172, 2173, 2175, 2178, 2184, 2186, 2193, 2196, 2199, 2203, 2205, 2208, 2213, 2218, 2220, 2222, 2224, 2226, 2227, 2231, 2233, 2234, 2243, 2248, 2254, 2257, 2258, 2261, 2262, 2263, 2264, 2268, 2269, 2273, 2276, 2277, 2280, 2282, 2287, 2290, 2293, 2297, 2299, 2302, 2307, 2316, 2317, 2318, 2321, 2322, 2324, 2326, 2327, 2331, 2336, 2338, 2339, 2347, 2349, 2355, 2357, 2358, 2360, 2361, 2367, 2371, 2384, 2386, 2387, 2388, 2394, 2396, 2398, 2402, 2406, 2407, 2409, 2410, 2414, 2416, 2418, 2419, 2420, 2422, 2425, 2431, 2433, 2434, 2435, 2440, 2444, 2447, 2451, 2452, 2454, 2455, 2456, 2458, 2459, 2460, 2461, 2464, 2468, 2469, 2472, 2474, 2476, 2477, 2478, 2483, 2485, 2486, 2489, 2491, 2492, 2496, 2503, 2507, 2518, 2521, 2522, 2525, 2526, 2527, 2531, 2535, 2536, 2541, 2544, 2548, 2552, 2556, 2557, 2558, 2561, 2562, 2564, 2574, 2577, 2578, 2579, 2580, 2581, 2583, 2586, 2588, 2594, 2597, 2598, 2617, 2619, 2623, 2627, 2630, 2631, 2635, 2636, 2637, 2639, 2642, 2643, 2644, 2645, 2647, 2657, 2669, 2675, 2677, 2680, 2683, 2685, 2686, 2693, 2696, 2698, 2699, 2702, 2709, 2711, 2717, 2720, 2724, 2727, 2732, 2733, 2741, 2746, 2747, 2750, 2753, 2759, 2764, 2765, 2770, 2773, 2776, 2778, 2782, 2786, 2787, 2788, 2790, 2791, 2792, 2796, 2798, 2800, 2805, 2807, 2811, 2814, 2817, 2818, 2819, 2820, 2825, 2826, 2827, 2832, 2833, 2834, 2837, 2844, 2847, 2848, 2852, 2854, 2855, 2856, 2858, 2859, 2861, 2868, 2870, 2874, 2875, 2878, 2880, 2884, 2885, 2889, 2891, 2896, 2897, 2899, 2900, 2911, 2918, 2921, 2923, 2925, 2930, 2935, 2937, 2940, 2944, 2945, 2946, 2947, 2952, 2955, 2958, 2959, 2960, 2961, 2965, 2966, 2970, 2978, 2981, 2983, 2987, 2990, 3002, 3011, 3014, 3022, 3024, 3027, 3030, 3034, 3036, 3039, 3040, 3043, 3044, 3045, 3051, 3053, 3063, 3076, 3087, 3092, 3100, 3105, 3108, 3110, 3113, 3116, 3118, 3121, 3130, 3132, 3134, 3135, 3137, 3142, 3144, 3147, 3149, 3153, 3155, 3158, 3159, 3160, 3162, 3165, 3174, 3175, 3178, 3179, 3187, 3188, 3191, 3192, 3196, 3197, 3200, 3202, 3203, 3206, 3214, 3216, 3219, 3222, 3224, 3236, 3237, 3241, 3247, 3250, 3255, 3262, 3263, 3264, 3265, 3270, 3272, 3278, 3283, 3285, 3286, 3290, 3291, 3298, 3300, 3302, 3306, 3307, 3308, 3315, 3318, 3324, 3328, 3332, 3337, 3341, 3342, 3343, 3346, 3348, 3349, 3353, 3355, 3357, 3358, 3360, 3361, 3362, 3365, 3366, 3374, 3377, 3378, 3380, 3384, 3388, 3390, 3392, 3395, 3397, 3401, 3408, 3409, 3413, 3416, 3425, 3427, 3429, 3430, 3432, 3438, 3440, 3441, 3445, 3446, 3447, 3448, 3451, 3452, 3456, 3464, 3465, 3467, 3469, 3473, 3475, 3478, 3479, 3480, 3491, 3492, 3498, 3501, 3509, 3510, 3517, 3518, 3522, 3526, 3527, 3528, 3530, 3532, 3534, 3538, 3542, 3543, 3546, 3548, 3549, 3552, 3553, 3557, 3558, 3561, 3564, 3572, 3574, 3586, 3588, 3589, 3590, 3595, 3606, 3612, 3613, 3614, 3617, 3626, 3629, 3631, 3635, 3638, 3639, 3641, 3644, 3648, 3650, 3652, 3653, 3654, 3657, 3658, 3663, 3664, 3668, 3670, 3671, 3674, 3679, 3682, 3686, 3695, 3699, 3701, 3705, 3706, 3709, 3715, 3723, 3724, 3730, 3732, 3734, 3741, 3743, 3745, 3748, 3750, 3751, 3753, 3754, 3758, 3762, 3768, 3771, 3775, 3776, 3779, 3782, 3785, 3790, 3791, 3796, 3799, 3802, 3806, 3812, 3813, 3815, 3820, 3821, 3825, 3835, 3849, 3851, 3852, 3853, 3854, 3855, 3856, 3857, 3862, 3869, 3872, 3873, 3874, 3880, 3890, 3894, 3896, 3898, 3899, 3903, 3904, 3905, 3908, 3910, 3916, 3918, 3923, 3924, 3926, 3928, 3931, 3936, 3941, 3942, 3946, 3947, 3959, 3964, 3965, 3970, 3971, 3974, 3976, 3981, 3986, 3989, 3991, 3993, 3994, 3997, 3999, 4003, 4004, 4005, 4006, 4007, 4011, 4013, 4014, 4017, 4018, 4019, 4022, 4025, 4026, 4033, 4035, 4036, 4038, 4039, 4040, 4041, 4042, 4049, 4050, 4056, 4059, 4065, 4066, 4071, 4074, 4075, 4076, 4077, 4078, 4079, 4081, 4083, 4084, 4091, 4094, 4101, 4102, 4105, 4110, 4113, 4118, 4121, 4124, 4126, 4128, 4131, 4132, 4134, 4139, 4140, 4141, 4142, 4143, 4145, 4147, 4150, 4154, 4157, 4161, 4162, 4163, 4171, 4175, 4195, 4196, 4203, 4204, 4206, 4207, 4208, 4211, 4214, 4216, 4217, 4220, 4231, 4232, 4233, 4236, 4237, 4242, 4245, 4246, 4250, 4252, 4255, 4257, 4262, 4267, 4271, 4274, 4275, 4280, 4282, 4285, 4288, 4296, 4297, 4299, 4307, 4308, 4314, 4318, 4322, 4325, 4335, 4339, 4340, 4345, 4347, 4349, 4352, 4353, 4355, 4357, 4358, 4359, 4369, 4370, 4371, 4373, 4374, 4375, 4378, 4381, 4382, 4390, 4396, 4397, 4400, 4401, 4404, 4411, 4414, 4417, 4418, 4420, 4422, 4424, 4430, 4431, 4432, 4434, 4445, 4447, 4453, 4457, 4460, 4461, 4463, 4464, 4469, 4470, 4474, 4478, 4479, 4480, 4481, 4482, 4488, 4491, 4494, 4495, 4500, 4502, 4505, 4506, 4509, 4510, 4511, 4512, 4513, 4518, 4520, 4525, 4527, 4532, 4534, 4535, 4537, 4543, 4548, 4549, 4550, 4553, 4557, 4562, 4568, 4569, 4572, 4575, 4581, 4582, 4583, 4588, 4590, 4592, 4595, 4596, 4597, 4600, 4601, 4602, 4605, 4606, 4608, 4610, 4616, 4617, 4620, 4622, 4623, 4625, 4626, 4628, 4631, 4633, 4637, 4640, 4641, 4647, 4653, 4657, 4666, 4671, 4680, 4682, 4683, 4684, 4687, 4688, 4689, 4692, 4696, 4699, 4703, 4704, 4706, 4707, 4712, 4717, 4723, 4724, 4725, 4726, 4728, 4731, 4735, 4736, 4744, 4746, 4747, 4748, 4750, 4752, 4756, 4762, 4764, 4766, 4769, 4770, 4777, 4778, 4784, 4785, 4797, 4799, 4801, 4802, 4805, 4810, 4811, 4825, 4826, 4827, 4830, 4831, 4839, 4845, 4846, 4848, 4851, 4855, 4860, 4861, 4863, 4864, 4865, 4869, 4872, 4876, 4881, 4882, 4883, 4884, 4887, 4889, 4890, 4891, 4892, 4898, 4899, 4903, 4907, 4911, 4914, 4924, 4931, 4940, 4941, 4945, 4946, 4949, 4960, 4964, 4965, 4968, 4975, 4976, 4980, 4985, 4989, 4990, 4994, 4995, 4996, 5001, 5004, 5007, 5008, 5009, 5010, 5012, 5015, 5016, 5020, 5023, 5028, 5034, 5035, 5038, 5039, 5046, 5048, 5056, 5058, 5063, 5064, 5066, 5077, 5079, 5080, 5081, 5089, 5091, 5093, 5094, 5097, 5098, 5099, 5103, 5106, 5109, 5110, 5113, 5115, 5118, 5119, 5120, 5121, 5123, 5125, 5126, 5127, 5130, 5134, 5135, 5142, 5143, 5150, 5159, 5163, 5167, 5170, 5171, 5179, 5182, 5185, 5187, 5189, 5190, 5191, 5200, 5201, 5208, 5209, 5210, 5211, 5212, 5214, 5215, 5218, 5219, 5222, 5223, 5224, 5226, 5227, 5228, 5229, 5230, 5232, 5236,

5239, 5241, 5244, 5251, 5253, 5256, 5257, 5258, 5259, 5261, 5264, 5267, 5268, 5269, 5271, 5280, 5282, 5285, 5299, 5300, 5302, 5304, 5308, 5310, 5311, 5316, 5317, 5324, 5325, 5326, 5331, 5332, 5334, 5335, 5339, 5340, 5341, 5345, 5348, 5357, 5362, 5364, 5367, 5368, 5373, 5375, 5376, 5377, 5380, 5384, 5388, 5389, 5390, 5391, 5393, 5394, 5402, 5406, 5407, 5408, 5414, 5415, 5420, 5423, 5424, 5428, 5431, 5432, 5435, 5436, 5437, 5438, 5441, 5442, 5443, 5445, 5446, 5452, 5455, 5460, 5461, 5465, 5467, 5468, 5469, 5470, 5471, 5480, 5484, 5488, 5490, 5499, 5504, 5507, 5512, 5513, 5515, 5516, 5517, 5524, 5526, 5532, 5534, 5535, 5537, 5538, 5539, 5543, 5544, 5545, 5548, 5551, 5553, 5560, 5562, 5563, 5565, 5566, 5568, 5569, 5571, 5577, 5581, 5585, 5587, 5590, 5594, 5603, 5604, 5605, 5607, 5612, 5615, 5616, 5617, 5618, 5619, 5620, 5626, 5629, 5645, 5646, 5648, 5649, 5653, 5655, 5657, 5658, 5659, 5662, 5669, 5675, 5676, 5684, 5690, 5691, 5695, 5698, 5701, 5706, 5711, 5713, 5714, 5724, 5729, 5732, 5733, 5738, 5742, 5743, 5744, 5747, 5749, 5751, 5752, 5754, 5758, 5764, 5765, 5767, 5769, 5772, 5779, 5780, 5786, 5790, 5795, 5799, 5802, 5803, 5804, 5805, 5806, 5813, 5815, 5816, 5818, 5823, 5825, 5833, 5838, 5840, 5849, 5851, 5852, 5853, 5866, 5867, 5869, 5871, 5872, 5875, 5878, 5879, 5881, 5883, 5885, 5887, 5893, 5898, 5899, 5900, 5901, 5903, 5906, 5912, 5914, 5921, 5924, 5925, 5926, 5928, 5931, 5933, 5934, 5942, 5944, 5949, 5950, 5953, 5954, 5963, 5965, 5968, 5970, 5971, 5975, 5977, 5990, 5992, 5995, 5996, 6000, 6005, 6014, 6015, 6018, 6023, 6030, 6036, 6037, 6038, 6040, 6042, 6043, 6046, 6049, 6051, 6052, 6053, 6056, 6061, 6064, 6066, 6069, 6070, 6073, 6079, 6082, 6091, 6092, 6101, 6104, 6108, 6109, 6112, 6113, 6120, 6122, 6123, 6124, 6125, 6127, 6129, 6132, 6136, 6143, 6145, 6147, 6150, 6151, 6154, 6164, 6168, 6170, 6172, 6178, 6180, 6185, 6193, 6195, 6196, 6197, 6206, 6208, 6211, 6212, 6217, 6219, 6224, 6230, 6234, 6238, 6244, 6246, 6248, 6249, 6254, 6256, 6261, 6262, 6266, 6267, 6271, 6273, 6277, 6278, 6281, 6282, 6283, 6286, 6290, 6291, 6292, 6295, 6300, 6301, 6303, 6305, 6311, 6314, 6315, 6319, 6322, 6325, 6329, 6331, 6333, 6335, 6339, 6340, 6342, 6343, 6344, 6345, 6347, 6351, 6352, 6353, 6359, 6365, 6366, 6371, 6372, 6373, 6379, 6383, 6385, 6387, 6395, 6396, 6397, 6398, 6399, 6402, 6403, 6407, 6408, 6410, 6413, 6414, 6417, 6421, 6426, 6427, 6430, 6433, 6436, 6439, 6440, 6445, 6446, 6453, 6456, 6458, 6460, 6461, 6464, 6466, 6467, 6473, 6475, 6480, 6485, 6486, 6489, 6492, 6493, 6504, 6506, 6508, 6514, 6516, 6519, 6520, 6521, 6522, 6525, 6538, 6541, 6542, 6546, 6549, 6550, 6551, 6557, 6564, 6565, 6568, 6569, 6576, 6586, 6587, 6591, 6593, 6595, 6598, 6599, 6601, 6605, 6610, 6611, 6615, 6618, 6620, 6622, 6624, 6629, 6631, 6632, 6634, 6637, 6639, 6640, 6642, 6646, 6650, 6652, 6657, 6660, 6662, 6666, 6668, 6670, 6676, 6679, 6680, 6681, 6683, 6689, 6691, 6697, 6700, 6703, 6708, 6709, 6712, 6713, 6715, 6726, 6727, 6729, 6737, 6738, 6739, 6740, 6742, 6752, 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**Primitive Elements of 31319 are 13416 primitive roots:-**

7, 13, 14, 17, 19, 21, 23, 26, 28, 31, 34, 35, 37, 38, 39, 42, 43, 46, 47, 51, 52, 56, 57, 59, 61, 63, 65, 68, 69, 71, 76, 77, 78, 83, 84, 85, 92, 93, 94, 102, 103, 104, 105, 107, 111, 112, 114, 115, 117, 118, 122, 124, 129, 136, 137, 138, 139, 140, 141, 142, 143, 148, 151, 152, 153, 154, 155, 156, 166, 170, 172, 175, 177, 181, 183, 184, 185, 186, 188, 189, 190, 195, 203, 204, 206, 207, 208, 209, 210, 213, 214, 215, 222, 229, 231, 233, 235, 236, 239, 241, 244, 248, 249, 252, 253, 258, 260, 263, 271, 272, 274, 276, 277, 278, 279, 280, 284, 285, 286, 287, 293, 295, 296, 302, 305, 306, 308, 309, 310, 311, 315, 321, 325, 332, 333, 336, 337, 341, 342, 343, 344, 345, 347, 350, 351, 355, 358, 366, 367, 368, 370, 371, 372, 374, 377, 378, 380, 385, 386, 387, 390, 406, 407, 408, 409, 411, 412, 415, 417, 418, 420, 423, 425, 426, 428, 429, 430, 443, 444, 448, 453, 456, 460, 461, 462, 463, 465, 466, 467, 468, 470, 473, 475, 478, 479, 488, 491, 493, 496, 498, 502, 504, 506, 510, 513, 515, 516, 517, 520, 525, 526, 531, 533, 537, 541, 542, 543, 544, 547, 548, 549, 551, 553, 554, 555, 556, 558, 560, 561, 564, 567, 568, 569, 570, 571, 572, 574, 575, 577, 579, 585, 586, 590, 592, 599, 604, 607, 608, 609, 610, 613, 616, 618, 619, 620, 621, 622, 623, 624, 627, 630, 631, 637, 639, 642, 643, 645, 649, 650, 661, 664, 666, 667, 672, 677, 679, 680, 682, 684, 685, 687, 688, 689, 690, 693, 694, 697, 699, 700, 702, 705, 707, 708, 709, 715, 716, 717, 723, 724, 732, 733, 734, 740, 742, 744, 747, 748, 751, 752, 753, 754, 755, 756, 759, 760, 763, 765, 769, 770, 772, 774, 778, 779, 780, 781, 789, 791, 797, 812, 813, 814, 818, 822, 824, 828, 830, 831, 832, 833, 834, 836, 837, 840, 846, 850, 852, 855, 856, 858, 859, 860, 861, 877, 879, 883, 885, 886, 887, 888, 889, 895, 896, 901, 905, 906, 911, 912, 916, 917, 918, 920, 922, 924, 926, 927, 930, 932, 933, 934, 935, 936, 937, 938, 940, 941, 943, 944, 945, 946, 950, 953, 956, 964, 965, 967, 975, 976, 977, 982, 983, 986, 992, 996, 997, 999, 1004, 1007, 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**39869 has 19932 primitive roots, and they are**

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