

7A

The first 1750 Fourier coefficients divided by two of the following function:

$$-\frac{7}{4}\phi_2^{(7)}(\tau) + \eta(\tau)^3 f_7(\tau) + \frac{7}{4}\vartheta_3(\tau)^4 \\ = 8q + 18q^2 + 28q^3 - 2q^4 + 42q^5 + 84q^6 + 98q^7 - 62q^8 + 88q^9 + 126q^{10} + 98q^{11} + \dots$$

{0, 4, 9, 14, -1, 21, 42, 49, -31, 44, 63, 49, -14, 49, 154, 84, -93, \ 63, 141, 70, -21, 210, 133, 77, -126, 111, 147, 140, 140, 104, 252, \ 112, -195, 168, 189, 315, -53, 136, 210, 196, -189, 147, 630, 161, \ -35, 273, 245, 168, -350, 392, 318, 252, -49, 184, 420, 252, 126, \ 280, 318, 210, -84, 217, 336, 693, -417, 294, 504, 217, -63, 336, \ 945, 245, -411, 259, 390, 434, -70, 637, 588, 301, -525, 428, 441, \ 294, 574, 378, 469, 420, -399, 315, 819, 735, -91, 448, 504, 420, \ -798, 343, 1197, 525, -96, 357, 756, 364, -441, 1260, 582, 385, -140, \ 376, 756, 532, 56, 400, 840, 504, -110, 637, 630, 945, -756, 457, \ 651, 588, -112, 546, 2058, 469, -887, 616, 882, 462, -168, 1050, 693, \ 840, -567, 488, 1008, 490, 861, 672, 749, 588, -1121, 630, 777, 1582, \ -118, 536, 1302, 525, -630, 819, 1869, 672, -196, 553, 861, 756, \ -1197, 1253, 1257, 553, -147, 1008, 882, 588, 462, 647, 1134, 910, \ -147, 609, 1260, 1610, -1043, 840, 945, 665, -273, 637, 2205, 868, \ -735, 798, 1344, 756, -168, 2100, 1260, 637, -1694, 688, 1029, 1176, \ 1155, 680, 1617, 700, -974, 952, 1071, 1582, -252, 882, 1092, 1113, \ -1225, 840, 3780, 777, -214, 1008, 1141, 924, -1260, 1680, 1182, \ 1036, -252, 882, 1596, 784, -70, 1403, 1194, 798, -280, 805, 1512, \ 2520, -946, 808, 1911, 1008, -210, 1120, 2835, 805, -2100, 847, 1422, \ 1274, -217, 2373, 1764, 980, -1008, 1176, 1638, 882, 1876, 1022, \ 1365, 1512, -1765, 903, 1848, 1974, -294, 1368, 1386, 917, -1512, \ 1134, 3150, 1260, -259, 945, 2520, 952, -1575, 2940, 1434, 1337, \ -336, 968, 1470, 1456, 693, 1000, 2016, 994, -259, 1680, 1764, 2205, \ -2607, 1083, 1890, 1372, -259, 1029, 4746, 1260, -1194, 1680, 1542, \ 1176, -434, 2317, 1589, 1428, -1750, 1302, 2457, 1078, 1757, 1456, \ 2016, 1092, -1764, 1099, 1659, 4095, -259, 1096, 2268, 1246, -2541, \ 1512, 3801, 1260, -401, 1519, 1701, 1540, -1323, 2520, 3024, 1169, \ -294, 1720, 1764, 1428, 238, 1168, 1902, 1596, -378, 1344, 2730, \ 2821, -1407, 2016, 1827, 1169, -420, 1225, 4865, 1960, -2359, 1239, \ 2520, 1512, -315, 3780, 1925, 1309, -2457, 1324, 1911, 1862, 2009, \

1554, 2604, 1288, -2107, 1911, 2394, 2870, -448, 1320, 2268, 2184, \
 -1512, 1470, 6300, 1281, -420, 1792, 1981, 1344, -3486, 3780, 2010, \
 1981, -343, 1384, 3528, 1512, 1141, 1848, 2118, 1680, -567, 1393, \
 2100, 4200, -2740, 1424, 2856, 1568, -357, 2541, 4732, 1638, -2268, \
 1435, 2646, 1932, -364, 3150, 3297, 1764, -2793, 1960, 2520, 1470, \
 3444, 1464, 2261, 2184, -1706, 1953, 3024, 3255, -371, 2352, 2772, \
 1477, -3500, 1519, 5040, 2520, -430, 1680, 3108, 1540, -2268, 5152, \
 2646, 1505, -532, 1890, 2352, 2100, -252, 1576, 4254, 1764, -394, \
 2128, 2394, 4410, -2520, 1600, 2415, 2520, -504, 1617, 7560, 1645, \
 -2614, 2688, 2490, 1638, -637, 3549, 3024, 2212, -1890, 1834, 3360, \
 2170, 2583, 2472, 2485, 1680, -4788, 1862, 2541, 5040, -508, 2058, \
 3822, 1757, -1953, 2296, 7119, 1729, -588, 1890, 2940, 3276, -2800, \
 3773, 3528, 1785, -546, 2352, 2646, 1764, 1470, 2142, 2982, 2562, \
 -427, 1785, 4536, 3885, -3531, 2800, 2709, 2184, -616, 2016, 5964, \
 2436, -2646, 1827, 4086, 1834, -462, 6510, 2765, 2016, -4200, 1933, \
 3402, 2730, 2870, 2058, 3780, 2268, -2079, 2520, 2835, 4697, -840, \
 1880, 2856, 2548, -3591, 2310, 8820, 1897, -458, 2821, 3941, 2100, \
 -3024, 4221, 2934, 3192, -490, 1976, 4368, 2156, 357, 3024, 2922, \
 1974, -672, 2394, 2982, 6321, -2247, 1984, 5040, 2065, -588, 2688, \
 6615, 2569, -5525, 2023, 3198, 2716, -630, 4410, 4116, 2198, -2331, \
 3822, 3087, 2058, 4690, 2240, 3780, 2772, -3358, 2079, 5040, 5670, \
 -470, 2800, 3528, 2149, -3906, 2107, 6909, 3157, -539, 2793, 4284, \
 2128, -3990, 6300, 3906, 2352, -819, 2168, 3234, 3528, 1393, 2176, \
 4368, 2170, -672, 3360, 3276, 4725, -4900, 2746, 3297, 3360, -553, \
 2394, 12285, 2149, -2583, 2968, 3390, 2688, -756, 5537, 3766, 3297, \
 -5229, 2224, 4536, 2254, 3409, 3696, 3780, 2268, -3807, 2520, 4557, \
 6720, -595, 2264, 4620, 2772, -3675, 3367, 7560, 2345, -1008, 2317, \
 3493, 3528, -2646, 6300, 5214, 2534, -588, 3136, 4284, 2604, -210, \
 2344, 3594, 4340, -608, 2373, 4788, 5145, -3402, 3192, 4032, 2401, \
 -910, 2898, 8414, 3220, -3843, 2646, 6048, 2422, -609, 8169, 3605, \
 2940, -3780, 2646, 3675, 3276, 4431, 2456, 5880, 2660, -5131, 4032, \
 3717, 5355, -840, 2488, 4536, 3577, -2835, 2688, 11340, 3528, -595, \
 3360, 3829, 2520, -6825, 5460, 4029, 3388, -637, 3250, 5586, 2548, \
 1617, 3812, 4662, 2772, -868, 2569, 3864, 9492, -4823, 2898, 5733, \
 2569, -798, 3920, 8540, 2653, -4032, 3150, 3894, 3822, -756, 5677, \
 6552, 2597, -4200, 3528, 4410, 3192, 5740, 2680, 3941, 4032, -3780, \
 2667, 5376, 5838, -707, 4914, 4032, 2940, -7070, 2695, 11340, 3612, \
 -634, 2709, 5985, 3472, -3087, 7980, 4038, 2940, -1176, 3038, 4536, \

4200, 1127, 3318, 5544, 2758, -758, 3696, 5040, 5978, -4851, 3038, \
 4179, 4536, -700, 2793, 12600, 3024, -6162, 4095, 4170, 3108, -952, \
 7560, 4704, 3780, -3213, 2816, 7623, 2842, 4312, 3808, 4830, 3444, \
 -6300, 3080, 4305, 9555, -882, 2888, 5796, 2821, -3276, 5208, 9450, \
 2849, -1071, 2905, 5292, 3892, -5929, 7119, 5880, 3528, -840, 4480, \
 4410, 2940, 2772, 3036, 4470, 3948, -707, 3843, 6552, 7042, -4670, \
 3976, 5859, 3150, -1008, 2989, 9765, 5460, -3423, 3003, 7056, 3010, \
 -924, 8820, 4501, 3101, -7980, 3654, 4557, 4298, 4592, 3318, 7560, \
 3332, -3474, 4459, 5040, 8190, -1036, 3048, 4620, 4116, -6300, 3087, \
 15393, 3017, -882, 5040, 4613, 3108, -4788, 6741, 5670, 5145, -784, \
 3360, 6300, 3780, -714, 4704, 4722, 3360, -1448, 3402, 5292, 9240, \
 -3590, 3822, 6384, 3185, -798, 4641, 13230, 3269, -7000, 3528, 4818, \
 5208, -805, 6930, 7560, 3269, -4536, 4312, 4851, 3528, 6888, 4138, \
 4893, 4732, -5994, 3255, 8064, 7910, -874, 4368, 4914, 4536, -5733, \
 3283, 10773, 4396, -1008, 3297, 6636, 3528, -5250, 12600, 5586, 3241, \
 -1120, 3626, 6510, 4452, 2079, 3368, 7326, 4032, -875, 5040, 5040, \
 7210, -10164, 3460, 5586, 4893, -847, 4074, 15120, 3325, -4198, 5040, \
 6174, 3402, -1274, 7350, 5173, 6076, -5425, 3400, 6888, 3780, 7035, \
 5032, 5173, 3444, -5292, 4158, 5670, 10080, -980, 3710, 9828, 3549, \
 -6384, 4648, 11361, 4200, -1176, 3493, 5285, 5320, -4914, 8820, 7056, \
 3780, -882, 5712, 5292, 3780, 784, 3536, 6426, 4732, -938, 3549, \
 7686, 9450, -4095, 5184, 5355, 3521, -1512, 3577, 11655, 5376, -7177, \
 4557, 8400, 3920, -903, 11186, 6552, 3605, -5544, 3624, 6048, 6552, \
 5432, 3906, 7308, 3640, -7350, 4872, 5481, 7798, -1350, 5040, 5502, \
 4900, -4158, 3675, 19530, 3745, -931, 5929, 6048, 4452, -9576, 7973, \
 5814, 4956, -1134, 3736, 8190, 3724, 2310, 6048, 6174, 4116, -1260, \
 3745, 6804, 12285, -5971, 3984, 7560, 4809, -945, 5040, 14189, 4116, \
 -7560, 4032, 5742, 5334, -952, 10080, 7644, 3829, -7623, 6077, 6930, \
 3822, 8036, 3800, 5733, 6216, -4342, 3843, 8463, 8295, -1267, 5152, \
 6300, 3941, -8400, 5292, 12537, 5880, -998, 3885, 9576, 4284, -4410, \
 11340, 5790, 4704, -1456, 3880, 6468, 5236, -315, 4200, 9072, 3934, \
 -922, 7098, 5922, 9541, -6048, 3944, 7182, 5880, -994, 4368, 19026, \
 4788, -6307, 5320, 6018, 4284, -1680, 8589, 6069, 5761, -5292, 4830, \
 8064, 4256, 6027, 5376, 7777, 4032, -11283, 4039, 6069, 15120, -1032, \
 4410, 8148, 4340, -5670, 6160, 13230, 4081, -1372, 4914, 6734, 5460, \
 -6475, 8820, 11466, 4025, -1029, 6048, 6174, 5208, 4578, 4522, 6720, \
 6006, -1260, 4137, 8316, 9562, -7554, 6720, 6237, 4249, -1680, 4410, \
 17010, 5572, -4714, 4179, 8400, 5040, -1176, 13650, 6349, 4494, \

-10850, 4240, 6321, 5628, 6349, 5082, 9345, 4536, -4767, 6272, 8379, \ 9135, -1428, 4280, 6384, 7644, -8470, 4263, 18900, 4606, -1302, 6384, \ 7056, 4284, -7371, 12243, 6390, 5740, -1078, 4328, 10584, 4312, 637, \ 6264, 6450, 5880, -1456, 4333, 6510, 12600, -6048, 4662, 10080, 4802, \ -1092, 7056, 14175, 4606, -11172, 4375, 8163, 6370, -1099, 9485, \ 10080, 5292, -4977, 5880, 7182, 4410, 11193, 4802, 6573, 5908, -6979, \ 6048, 8904, 9555, -1198, 6720, 8064, 4704, -6804, 4760, 16611, 7812, \ -1274, 4473, 9849, 4480, -10605, 13020, 6810, 4585, -1512, 5418, \ 6762, 7644, 2765, 4544, 11088, 4522, -1260, 6048, 6804, 11970, \ -10637, 4560, 7560, 6076, -1519, 4557, 20160, 4557, -5103, 8190, \ 6942, 4578, -1540, 11340, 8316, 6720, -8379, 4998, 10101, 5544, 6888, \ 6160, 6965, 4620, -9072, 4627, 6951, 15820, -1155, 5834, 10584, 4557, \ -7350, 6216, 18900, 5082, -1774, 4928, 7574, 7560, -5292, 10045, \ 9408, 5096, -1428, 6792, 7812, 5040, -1106, 5670, 7122, 6300, -1258, \ 5040, 13020, 10122, -5758, 7056, 7119, 5712, -1596, 5040, 15435, \ 6937, -9450, 4767, 9576, 5040, -1344, 17640, 7189, 4837, -8190, 4924, \ 8694, 6412, 8400, 4808, 9660, 6552, -8743, 7623, 7938, 10486, -2016, \ 4840, 7266, 6468, -5481, 5838, 24633, 5180, -1267, 6496, 8820, 5292, \ -10500, 10500, 7938, 8736, -1225, 5334, 9828, 4900, 3633, 6552, 7374, \ 5208, -1960, 5922, 7980, 14280, -10479, 4904, 12096, 5292, -1239, \ 7189, 16065, 5964, -7560, 5390, 7446, 7392, -1512, 11872, 10857, \ 5061, -7875, 8680, 8064, 4998, 10332, 5032, 10584, 7560, -5775, 5019, \ 10080, 13230, -1211, 6720, 7560, 4949, -15561, 5544, 16380, 7448, \ -1381, 6447, 10164, 5068, -5733, 16401, 9780, 5089, -1862, 5080, \ 7644, 8232, 833, 5376, 11517, 5110, -1554, 6832, 8316, 12600, -7812, \ 6174, 7707, 7525, -1288, 5586, 28476, 5117, -10115, 6888, 8442, 6510, \ -1911, 11165, 7749, 7560, -7182, 5224, 11760, 5194, 7784, 10080, \ 7861, 5208, -11200, 5215, 9450, 15120, -1254, 5240, 11466, 7056, \ -6804, 7000, 16989, 5201, -2184, 5600, 7861, 7644, -9576, 13860, \ 10584, 5866, -1470, 7056, 9576, 5292, 4620, 5670, 7878, 8568, -1379, \ 5586, 12096, 12656, -10500, 8307, 8001, 5257, -1792, 6727, 17388, \ 7140, -5943, 5880, 14742, 5362, -1344, 15540, 8820, 6468, -14238, \ 5680, 8085, 8470, 10332, 5670, 10836, 5404, -6102, 8736, 8127, 13230, \ -2023, 5464, 10416, 8064, -8575, 5439, 23940, 6552, -1270, 7917, \ 8820, 5460, -10584, 11760, 9030, 7308, -1512, 6594, 12600, 5488, 945, \ 7336, 9954, 5502, -1848, 6517, 8274, 21210, -6250, 5880, 11088, 5425, \ -1680, 8064, 17948, 5453, -13671, 6678, 9114, 7742, -1393, 11970, \ 13608, 5894, -6300, 8400, 8379, 7560, 11480, 5608, 9072, 8232, \

-13096, 5607, 12285, 12075, -1322, 9072, 9324, 5621, -8568, 5635, \ 22680, 8085, -1568, 5649, 11340, 7560, -8925, 18984, 8562, 5705, \ -2541, 5640, 8526, 7588, 3444, 7644, 11424, 5698, -1554, 8281, 10332, \ 12362, -14364, 6034, 9240, 9240, -1435, 5733, 28665, 6454, -7938, \ 7672, 8598, 6048, -1932, 15120, 8589, 8680, -9100, 6174, 15624, 6272, \ 8610, 8400, 8645, 6972, -9891, 5803, 8715, 16800, -1764, 6398, 11676, \ 5845, -12201, 10374, 21357, 5929, -1960, 5845, 10584, 7812, -7560, \ 12565, 13440, 7273, -1470, 8624, 8820, 6216, 1428, 6051, 9183, 9828, \ -1542, 7098, 11844, 12705, -6783, 7896, 11529, 6300, -2184, 5929, \ 21007, 9576, -10818, 5943, 11928, 5950, -1953, 19110, 9534, 6468, \ -9072, 8064, 8967, 7980, 8897, 5944, 16380, 6300, -9443, 8008, 9009, \ 16779, -2352, 6426, 9030, 8841, -8316, 6027, 26460, 6097, -1547, \ 10416, 9149, 6636, -16940, 14700, 10962, 8092, -1519, 6088, 12894, \ 7308, 3696, 8800, 10206, 6384, -2520, 6097, 9996, 17640, -9526, 7350, \ 13377, 6041, -1680, 9072, 24570, 6552}

14A

The first 1750 Fourier coefficients divided by two of the following function:

$$\begin{aligned} & \frac{1}{24} \left(\frac{2}{3} \phi_2^{(2)}(\tau) + 14 \phi_2^{(7)}(\tau) - \frac{182}{3} \phi_2^{(14)}(\tau) + 112 \eta(\tau) \eta(2\tau) \eta(7\tau) \eta(14\tau) \right) \\ & + \eta(\tau)^3 f_7(\tau) + \frac{23}{12} \phi_2^{(2)}(\tau) \\ & = 50q + 32q^2 + 168q^3 + 40q^4 + 266q^5 + 168q^6 + 336q^7 + 8q^8 + \dots \end{aligned}$$

{0, 25, 16, 84, 20, 133, 84, 168, 4, 289, 119, 273, 56, 301, 161, \ 532, -16, 413, 260, 448, 91, 672, 245, 525, 28, 678, 287, 896, 161, \ 650, 476, 700, -48, 1064, 343, 1015, 192, 850, 392, 1260, 35, 945, \ 672, 1001, 189, 1729, 469, 1036, -56, 1197, 619, 1568, 203, 1206, \ 784, 1596, 161, 1764, 612, 1316, 364, 1393, 644, 2212, -116, 1862, \ 952, 1477, 287, 2128, 1001, 1589, 72, 1645, 740, 2772, 308, 2037, \ 1092, 1813, -77, 2661, 819, 1848, 644, 2394, 861, 2688, 49, 1981, \ 1547, 2359, 357, 2856, 980, 2660, -196, 2149, 1204, 3437, 471, 2261, \ 1456, 2296, 91, 4060, 1072, 2429, 616, 2434, 1428, 3360, 133, 2542, \ 1596, 3192, 436, 4025, 1204, 3059, 140, 2914, 1211, 3696, 476, 3458, \ 2177, 2821, -292, 3864, 1666, 2968, 728, 3388, 1337, 5320, 91, 3106, \ 1904, 3136, 973, 4312, 1421, 3724, -148, 3990, 1463, 4788, 596, 3294, \

2436, 3381, 112, 5201, 1981, 4256, 868, 3493, 1589, 4760, -301, 4053, \
 2412, 3577, 651, 6384, 1680, 3696, 616, 4070, 2142, 5768, 693, 3829, \
 2352, 5215, -147, 5348, 1799, 3997, 1183, 4081, 2345, 5460, 161, \
 5054, 2520, 4788, 700, 6776, 2380, 4277, -504, 4342, 1967, 7448, \
 1176, 4334, 3073, 4480, 195, 6048, 2023, 5068, 1064, 5586, 2072, \
 6937, -189, 5320, 4004, 4725, 808, 6384, 2121, 5852, 224, 5404, 2204, \
 6552, 1092, 5530, 3024, 4984, 77, 8914, 2244, 5096, 1204, 5089, 2856, \
 8120, 188, 5162, 3619, 6384, 896, 7056, 2989, 5341, -308, 5341, 2689, \
 8092, 959, 7189, 3360, 6188, 196, 7476, 3094, 5544, 2121, 6398, 2597, \
 9576, -568, 5761, 3528, 6412, 1274, 8634, 2576, 5845, 280, 7182, \
 3332, 8008, 1001, 5957, 4760, 5992, -217, 9492, 2680, 8281, 1456, \
 6134, 2744, 9212, 917, 6250, 3752, 6244, 1085, 10640, 3332, 7119, \
 -668, 6858, 3570, 8736, 1127, 6573, 4788, 7980, 220, 10640, 2984, \
 7448, 1904, 7469, 2989, 9044, -252, 8246, 4627, 6832, 1981, 9240, \
 3808, 6860, 308, 6937, 3143, 13195, 1253, 7046, 4312, 7966, -749, \
 9520, 4025, 8008, 1832, 9667, 3269, 9744, 231, 8092, 5712, 7385, \
 1260, 10946, 3360, 9044, 532, 7510, 3603, 10080, 1638, 8512, 5152, \
 8428, 217, 12768, 3479, 7609, 1848, 7693, 5166, 12376, -567, 7889, \
 4732, 9576, 1351, 12152, 3633, 7973, 455, 8401, 3563, 11844, 2261, \
 9842, 4956, 8176, -315, 12117, 4522, 9184, 1960, 8334, 4284, 13832, \
 308, 9366, 6664, 8337, 1820, 11424, 3717, 8596, -1092, 12180, 3788, \
 12677, 1463, 8706, 6664, 9576, 1176, 11620, 4008, 10640, 2345, 8869, \
 3920, 13524, -437, 8886, 5376, 9968, 1547, 16093, 5026, 10150, 448, \
 9121, 4998, 12152, 1568, 10136, 6209, 11172, -693, 12348, 4760, 9324, \
 3892, 9318, 4249, 13804, 296, 12299, 5712, 10507, 1673, 14896, 5236, \
 9597, -504, 9541, 5348, 15960, 1628, 10640, 5880, 9772, 420, 15589, \
 5054, 9765, 2296, 11970, 4424, 13384, 49, 10018, 8027, 11172, 1748, \
 13440, 4480, 14210, 476, 10126, 4571, 16016, 2184, 10269, 8008, \
 10381, -388, 17024, 4688, 10360, 2751, 11473, 5712, 14028, 364, \
 11690, 6384, 13720, 2933, 15590, 4669, 10556, -1204, 11774, 4823, \
 16240, 1949, 13034, 7196, 10829, 343, 14616, 7175, 10885, 2520, \
 11886, 5572, 20748, -420, 12173, 6636, 11109, 2366, 14952, 5040, \
 11172, 1953, 13566, 5670, 16212, 1925, 11389, 8568, 12523, -1144, \
 17752, 5075, 13832, 2632, 12768, 6314, 15484, 490, 11585, 7740, \
 11620, 2044, 21000, 5229, 12712, -616, 12202, 6426, 17276, 3248, \
 12978, 7112, 14364, 469, 16016, 5383, 14329, 3640, 12086, 5432, \
 16044, -917, 14630, 9324, 12145, 2160, 17885, 7413, 13272, 560, \
 13573, 5552, 20216, 2156, 12406, 8260, 13580, 805, 19152, 5568, \

12572, 2968, 15162, 5684, 20412, 441, 12638, 9520, 12817, 2548, \
 16912, 6993, 16457, -1640, 12817, 6019, 17136, 2730, 14196, 7728, \
 14294, 427, 24206, 5775, 12936, 4760, 14168, 7140, 17640, -516, \
 13153, 9520, 18270, 2288, 17640, 6664, 13293, 700, 13405, 7301, \
 19649, 2317, 17689, 8092, 13552, -1008, 20328, 7378, 15008, 3563, \
 13634, 6104, 22344, 1841, 13726, 8232, 13804, 2912, 21280, 6244, \
 15211, -700, 17383, 6251, 21280, 2387, 15190, 13013, 13909, 385, \
 18816, 6344, 17024, 3248, 16765, 7126, 20769, -1645, 14166, 8624, \
 14308, 3857, 23408, 7112, 14336, 736, 15960, 8561, 21672, 2429, \
 14514, 8736, 17556, -525, 21329, 8036, 14609, 4368, 14581, 6573, \
 22456, 504, 20300, 9820, 15974, 2520, 19824, 8092, 16492, 392, 14986, \
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 18354, 8421, 20412, -539, 16702, 11424, 15232, 2611, 26369, 6909, \
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21A

The first 1750 Fourier coefficients divided by two of the following function:

$$-\frac{1}{3} \left(\frac{7\eta(\tau)^3\eta(7\tau)^3}{\eta(3\tau)\eta(21\tau)} - \frac{\eta(\tau)^6}{\eta(3\tau)^2} \right) + \eta(\tau)^3 f'_7(\tau) + 2\vartheta_3(\tau)^4 \\ = 22q + 48q^2 + 54q^3 + 46q^4 + 102q^5 + 204q^6 + 126q^7 + 42q^8 + \dots$$

{0, 11, 24, 27, 23, 51, 102, 63, 21, 99, 147, 96, 103, 105, 183, 204, \ 12, 153, 318, 168, 144, 251, 280, 192, 84, 244, 336, 315, 227, 237, \ 570, 252, 39, 366, 441, 366, 319, 318, 489, 462, 117, 336, 732, 343, \ 297, 636, 560, 387, 109, 497, 741, 612, 329, 432, 966, 546, 168, 624, \ 717, 468, 576, 483, 774, 827, 33, 672, 1182, 525, 432, 774, 1239, \ 573, 300, 567, 927, 1005, 452, 753, 1344, 609, 153, 963, 987, 693, \ 691, 882, 1059, 978, 276, 744, 1866, 973, 573, 1032, 1134, 978, 138, \ 819, 1317, 1230, 732, 804, 1710, 840, 357, 1464, 1275, 864, 967, 810, \ 1731, 1194, 350, 924, 1956, 1134, 735, 1470, 1386, 1098, 630, 1052, \ 1497, 1344, 740, 1242, 2460, 1029, 36, 1440, 1974, 1059, 1194, 1372, \ 1629, 1932, 351, 1137, 2322, 1134, 1047, 1548, 1694, 1365, 325, 1428, \ 1782, 1735, 878, 1200, 2994, 1211, 483, 1908, 2478, 1548, 1358, 1239, \ 1935, 1710, 123, 1485, 2910, 1281, 1029, 2364, 2016, 1365, 630, 1424, \ 2628, 2064, 1035, 1416, 2892, 2128, 309, 1872, 2163, 1473, 1872, \ 1365, 2583, 2010, 552, 1854, 3096, 1638, 1173, 2555, 2856, 1539, 91, \ 1542, 2394, 2688, 1641, 1554, 3774, 1638, 777, 2172, 2373, 1851, \ 1728, 1974, 2526, 2502, 287, 1914, 4434, 1715, 1308, 2322, 2548, \ 2118, 948, 2212, 2637, 2418, 1686, 2016, 3708, 1806, 24, 3237, 2727, \ 1854, 1976, 1785, 3483, 2970, 647, 1875, 4368, 2268, 1482, 2664, \ 3717, 1890, 612, 1911, 3240, 2907, 1439, 2613, 4074, 2184, 798, 2772, \ 3654, 2058, 2419, 2282, 3117, 3420, -82, 2046, 4236, 2590, 2058, \ 3138, 3108, 2112, 1134, 2520, 3681, 2976, 1541, 2169, 5754, 2184, \ 459, 3430, 3261, 3027, 2346, 2242, 3402, 3336, 1629, 2295, 4644, \ 2184, 1776, 3912, 3990, 2583, 354, 2476, 4359, 3066, 1727, 2352, \

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 13506, 29562, 11592, 8448, 14880, 19908, 12201, 3102, 13762, 18270, \
 20016, 8099, 12405, 22608, 11004, 4809, 14904, 16509, 11997, 13454, \
 13440, 18414, 16732, -84, 11322, 27864, 12096, 8664, 16482, 21189, \
 13686, 5796, 12222, 17181, 17112, 9990, 13107, 24936, 11375, 2316, \
 20016, 18144, 11487, 12564, 11262, 24402, 17262, 3846, 11580, 23346, \
 17430, 8874, 15564, 17136, 11562, 1914, 12516, 19158, 17220, 8771, \
 14901, 23424, 11424, 4641, 19722, 21981, 11745, 13027, 11562, 17556, \
 19152, 4907, 12384, 26238, 11508, 10866, 15780, 18648, 14766, 6216, \
 13818, 17730, 17076, 8510, 12831, 31314, 11515, 765, 15762, 19110, \
 15012, 13188, 14679, 17925, 17352, 4950, 11940, 27048, 11592, 9444, \
 23100, 17626, 11934, 3320, 11571, 21753, 17694, 8730, 11952, 26208, \

15876, 5481, 16104, 22386, 12039, 15312, 12432, 18147, 17556, 774, \

16230, 24276, 13048, 10269, 16128, 21588, 12180, 7542, 12978, 18321, \

19884, 8707, 12852, 27864, 15932, 3102, 19125, 17955, 12183, 12512, \

15141, 20361, 16500, 4290, 13482, 33840, 11970, 9384, 18154, 19908, \

14910, 294, 12736, 18627, 19344, 16386, 13053, 25098, 11970, 4839, \

20208, 18249, 15498, 13784, 12366, 23994, 18576, 1925, 12600, 27984, \

14868, 9579, 18192, 19824, 12525, 8316, 15442, 20829, 16740, 9990, \

15258, 28812, 12264, 24, 17004, 22386, 12648, 12924, 14637, 19002, \

25469, 4541, 13608, 25626, 12285, 11772, 18576, 23597, 12684, 3858, \

15120, 21000, 17955, 9251, 13992, 31284, 13146, 4893, 19152, 18921, \

17394, 13904, 12510, 20898, 18984, 266, 12861, 28074, 15925, 9813, \

20940, 21042, 12897, 6720, 12831, 26541, 18786, 10360, 12984, 26154, \

17136, 2664, 20862, 19083, 13002, 17424, 12710, 19698, 17658, 8061, \

17640, 26400, 12852, 11226, 19110, 23268, 14421, 1854, 13594, 21264, \

21096, 9539, 13230, 34524, 14392, 6300, 17652, 19287, 13932, 13458, \

19908, 19899, 19866, 2072, 14364, 35970, 14112, 10428, 19392, 19544, \

16050, 7578, 13125, 20094, 19576, 11592, 14685, 27012, 13209, 567, \

23832, 26901, 13551, 13748, 13125, 24402, 18006, 5436, 14787, 30744, \

16485, 10248, 19824, 19866, 14319, 2712, 13492, 20991, 22644, 9594, \

16314, 27168, 16723, 5166, 18168, 25893, 14586, 15060, 13251, 24528, \

21912, 747, 13719, 27372, 13314, 13644, 23291, 21504, 14910, 7182, \

18144, 20643, 18330, 14123, 13860, 37488, 14112, 2865, 18468, 20307, \

18300, 16380, 14238, 20859, 20058, 5904, 13965, 30954, 13713, 10548, \

23994, 20552, 15297, 955, 19376, 25278, 18462, 10073, 13947, 29802, \

16590, 4914, 20214, 22974, 14706, 17616, 13587, 23016, 20580, 2360, \

16926, 30744, 13867, 11730, 20772, 32382, 15156}

15A

The first 1750 Fourier coefficients divided by two of the following function:

$$\begin{aligned}
 & -\frac{1}{24} \left(-\frac{3}{2} \phi_2^{(3)}(\tau) - 5 \phi_2^{(5)}(\tau) + \frac{105}{2} \phi_2^{(15)}(\tau) - 90 \eta(\tau) \eta(3\tau) \eta(5\tau) \eta(15\tau) \right) \\
 & + \eta(\tau)^3 f_{15}(\tau) + \frac{23}{12} \phi_2^{(2)}(\tau) \\
 & = 48q + 38q^2 + 168q^3 + 30q^4 + 268q^5 + 160q^6 + 354q^7 + 24q^8 + \dots
 \end{aligned}$$

{0, 24, 19, 84, 15, 134, 80, 177, 12, 285, 111, 258, 66, 306, 163, \

538, -6, 397, 248, 450, 80, 699, 252, 534, 17, 669, 289, 873, 135, \
 660, 510, 708, -47, 1056, 363, 1037, 186, 822, 415, 1227, 18, 948, \
 625, 981, 210, 1765, 489, 1068, -51, 1248, 576, 1569, 240, 1181, 773, \
 1548, 79, 1755, 615, 1320, 469, 1368, 637, 2265, -75, 1811, 930, \
 1527, 295, 2097, 903, 1578, 77, 1656, 793, 2793, 330, 2124, 1090, \
 1770, -111, 2634, 837, 1878, 477, 2337, 889, 2625, 96, 1980, 1722, \
 2478, 396, 2781, 963, 2615, -190, 2172, 1171, 3390, 390, 2268, 1425, \
 2271, 127, 4319, 1119, 2376, 561, 2460, 1362, 3339, -33, 2521, 1570, \
 3111, 510, 3960, 1230, 3186, 357, 2952, 1266, 3651, 540, 3369, 2011, \
 2817, -186, 3837, 1584, 2898, 708, 3540, 1363, 5461, 189, 3017, 1878, \
 3090, 635, 4179, 1482, 3732, -195, 3885, 1489, 5004, 660, 3360, 2705, \
 3348, 235, 5115, 1956, 4133, 831, 3522, 1615, 4737, -399, 4248, 2333, \
 3621, 690, 6486, 1689, 3696, 181, 4032, 2023, 5670, 735, 3841, 2340, \
 5337, -42, 5250, 1845, 4020, 1621, 4008, 2282, 5424, 237, 4907, 2500, \
 4764, 822, 6963, 2250, 4278, -528, 4296, 1993, 7562, 975, 4397, 3024, \
 4410, 13, 5919, 2067, 5310, 1077, 5463, 2149, 6786, -54, 5280, 4125, \
 4728, 935, 6306, 2223, 5711, 170, 5664, 2222, 6447, 960, 5568, 2950, \
 4971, -257, 9210, 2319, 5028, 1215, 5100, 2724, 8388, 285, 5141, \
 3523, 6237, 1020, 6975, 2934, 5280, 178, 5328, 2695, 7902, 1050, \
 7358, 3300, 6180, 301, 7317, 2886, 5598, 1503, 6372, 2623, 9729, \
 -456, 5777, 3445, 6726, 1115, 8490, 2712, 5898, 294, 6981, 3260, \
 7875, 1125, 6000, 5373, 6048, -103, 9786, 2823, 7998, 1431, 6162, \
 2815, 9060, 99, 6228, 3756, 6261, 1230, 10790, 3408, 7434, -694, \
 6768, 3390, 8559, 1230, 6481, 4440, 7770, 319, 10452, 3015, 7434, \
 2529, 7788, 3157, 8901, -90, 8028, 4521, 6867, 1620, 9117, 3612, \
 6858, 328, 6996, 3193, 14165, 1350, 7057, 4185, 7980, -910, 9459, \
 3912, 7950, 1725, 9336, 3349, 9564, 471, 8496, 6180, 7368, 1404, \
 10740, 3423, 8837, -411, 7452, 3752, 9957, 1425, 8496, 4975, 8850, \
 457, 12972, 3579, 7656, 1785, 7740, 4603, 12189, -348, 7901, 4680, \
 9318, 1530, 12582, 3630, 7920, 1449, 8424, 3738, 11628, 1890, 9611, \
 4840, 8097, -96, 11910, 4308, 9558, 1893, 8226, 4416, 14113, 519, \
 9300, 6169, 8370, 1535, 11199, 3882, 8418, -1093, 12444, 3949, 12465, \
 1650, 8640, 7215, 9558, 548, 11556, 4023, 10355, 2262, 8802, 4135, \
 13980, -711, 8928, 5335, 9912, 1710, 16564, 4890, 10164, 411, 9120, \
 4722, 12069, 1785, 10620, 6033, 10911, -431, 12195, 4920, 9300, 3737, \
 9288, 4297, 13632, 477, 11987, 5610, 10974, 1818, 14664, 4959, 9558, \
 -612, 9576, 5216, 16200, 1830, 10590, 5800, 9810, 126, 16125, 5142, \
 9834, 2247, 11655, 4549, 13065, -705, 9960, 9077, 11076, 1915, 13341, \

4683, 14518, 430, 10152, 4662, 15663, 1905, 10188, 7500, 10311, -120, \
 17276, 4779, 10428, 2634, 12036, 5358, 13779, 570, 11652, 6250, \
 13350, 2430, 15255, 4920, 10620, -180, 11808, 4958, 16776, 2235, \
 12707, 7010, 10857, 608, 14337, 6447, 10938, 2523, 11940, 5720, \
 21240, -132, 12744, 6582, 11070, 1965, 14679, 5112, 11094, 487, \
 13233, 5868, 15987, 2175, 11220, 9285, 13098, -821, 17355, 5223, \
 13451, 2631, 12684, 6194, 15237, 162, 11568, 7545, 11601, 2250, \
 22419, 5349, 12774, -624, 12192, 6119, 16980, 2700, 12972, 7020, \
 13977, 739, 15690, 5475, 15186, 5122, 12048, 5497, 15888, -597, \
 14320, 8750, 12087, 2315, 17550, 6912, 13260, 522, 14160, 5653, \
 20534, 2370, 12337, 8089, 13614, -973, 18888, 5757, 12474, 2877, \
 14781, 5809, 21057, 666, 12600, 10335, 12648, 2820, 16746, 6846, \
 16026, -1704, 12792, 6281, 16947, 2385, 14868, 7660, 14412, 787, \
 24785, 5979, 12948, 3354, 14160, 6780, 17289, -138, 13201, 9246, \
 18666, 2490, 17535, 6846, 13260, 2102, 13368, 7172, 19275, 2580, \
 17222, 7980, 13437, -725, 20970, 7002, 14838, 3393, 13626, 6223, \
 22656, 948, 13717, 8095, 13710, 2585, 20889, 6402, 15930, -723, \
 16794, 6349, 21000, 2640, 15096, 13791, 13968, 775, 18501, 6483, \
 16577, 3201, 17682, 7320, 20370, -1992, 14148, 8424, 14181, 3240, \
 23747, 7320, 14376, 494, 15960, 8059, 22368, 2775, 14501, 8620, \
 17088, -192, 20970, 7824, 14640, 5598, 14688, 6697, 22026, 897, \
 20740, 9571, 15930, 2898, 19557, 7653, 16476, -1595, 14856, 6913, \
 28446, 3105, 14977, 8925, 17346, 269, 19959, 7824, 15234, 3750, \
 17877, 8150, 20124, -189, 16764, 12375, 15228, 2995, 27180, 7143, \
 18095, 690, 16764, 7118, 20457, 3135, 15528, 10792, 16740, -1110, \
 25854, 7179, 18054, 3570, 15660, 8142, 22650, 855, 17022, 11250, \
 21792, 3000, 21000, 7380, 15840, 1030, 18408, 7748, 21168, 3090, \
 20010, 10400, 16077, 1106, 23775, 8334, 17538, 3684, 16266, 7543, \
 30786, -771, 17964, 10539, 16290, 3035, 24480, 8802, 16458, 724, \
 19485, 7669, 23814, 3660, 19116, 13605, 16668, -222, 21996, 8550, \
 19733, 4581, 16722, 7855, 25164, 270, 16848, 9985, 19470, 3210, \
 31875, 7869, 18600, -2253, 17040, 10836, 22509, 3270, 17141, 11053, \
 21348, 979, 26562, 7935, 18660, 6536, 19176, 8772, 26115, -222, \
 20507, 10290, 17487, 3335, 23037, 9030, 20178, 708, 19212, 8113, \
 29157, 3390, 17597, 12500, 19146, -2214, 25470, 8157, 19572, 4077, \
 24888, 9128, 23565, 1041, 17940, 16221, 17988, 4050, 23721, 9216, \
 21251, -921, 19500, 8318, 31710, 3315, 18288, 10845, 18291, 937, \
 33636, 9780, 18228, 4536, 18420, 9444, 24279, -1260, 22709, 10930, \

21777, 4080, 27897, 8550, 18660, 2961, 19224, 8666, 24651, 3540, \
 23737, 12051, 23541, -179, 24837, 10353, 20178, 4278, 18906, 10106, \
 35375, 999, 18877, 13140, 18990, 3485, 29358, 8802, 18978, -2197, \
 22521, 8869, 26844, 4320, 21240, 15465, 21018, 1116, 27750, 9780, \
 26837, 4431, 19482, 8815, 25677, -1452, 19428, 14352, 19641, 4260, \
 32400, 9069, 19788, 916, 22656, 10170, 31578, 3765, 21390, 11760, \
 23370, -1601, 29358, 9165, 21240, 8841, 21468, 10344, 30756, 1137, \
 23628, 11860, 20067, 3822, 28890, 12642, 20238, -945, 22212, 9313, \
 33476, 3870, 23364, 13839, 20430, 312, 26859, 9447, 22332, 5724, \
 25332, 9409, 29415, -945, 20640, 16485, 25170, 3935, 27306, 9483, \
 27984, 841, 20652, 11084, 27387, 3795, 20748, 12370, 22302, -240, \
 43703, 10788, 20856, 4755, 22884, 11575, 27789, 1422, 21001, 13593, \
 24918, 4080, 31440, 9780, 24426, -1001, 21912, 10802, 30528, 4110, \
 25151, 15000, 21477, 1380, 31440, 11058, 21618, 5232, 24780, 9883, \
 39237, -252, 21637, 12805, 23940, 4520, 31170, 9972, 21774, 894, \
 25677, 11010, 33552, 4740, 23364, 20694, 22008, -983, 28941, 11736, \
 25955, 5031, 22182, 10195, 33093, 93, 29736, 13104, 23880, 4230, \
 36689, 10329, 23850, -1545, 22440, 11502, 29559, 4860, 22441, 14280, \
 31110, 1219, 32295, 10455, 22500, 8367, 22608, 12062, 33552, -1725, \
 28038, 15430, 24780, 4355, 34950, 11769, 22878, 973, 22776, 11796, \
 42495, 5130, 24694, 13485, 22950, -1699, 30459, 10617, 26550, 5640, \
 31080, 10669, 30636, 1236, 23220, 21625, 23388, 4344, 36846, 11736, \
 27533, -2430, 26904, 11316, 30897, 4305, 23508, 15090, 23511, 1580, \
 38886, 12018, 26004, 5355, 23580, 12258, 40770, -303, 25260, 14100, \
 29361, 4530, 31500, 13884, 25974, 4680, 25488, 10986, 33357, 4560, \
 33184, 14200, 23997, -1565, 37665, 12390, 24078, 6678, 24246, 11203, \
 39932, 1329, 24377, 15592, 27966, 4710, 32199, 12240, 24414, -1233, \
 32658, 13040, 36537, 4680, 24540, 19575, 27036, 1315, 37746, 11403, \
 29051, 6012, 24702, 12566, 32727, -3117, 26520, 16860, 24921, 4770, \
 46360, 11469, 30246, 1104, 24960, 12859, 36690, 4815, 27732, 18643, \
 29517, -282, 33315, 11625, 27126, 9350, 29028, 11737, 36225, 1704, \
 29760, 15030, 26904, 5670, 33597, 13809, 25458, -3769, 25596, 11773, \
 51828, 5205, 27900, 15160, 27420, 360, 38289, 13692, 25758, 5847, \
 30321, 13128, 34065, -324, 29736, 24138, 25908, 4915, 37716, 12003, \
 31992, 1329, 28764, 13070, 37350, 4770, 26088, 15465, 32391, -1127, \
 43190, 12039, 26256, 6864, 27840, 16254, 34779, 1605, 26401, 15610, \
 31080, 5670, 45300, 12240, 29100, 1308, 26568, 12198, 35091, 5940, \
 31348, 17071, 28644, 1501, 39144, 15003, 30798, 6093, 26826, 12403, \

49768, -1710, 27017, 18750, 28674, 4920, 39768, 13722, 27138, 1107, \
 38013, 12469, 35736, 5145, 27180, 21675, 27348, -396, 39135, 12603, \
 36280, 6171, 27402, 12595, 41940, 396, 29508, 18498, 30252, 5310, \
 45312, 14670, 29190, -2810, 27720, 14461, 39630, 5250, 31860, 18720, \
 32688, 1639, 36690, 13974, 27900, 13043, 30348, 12817, 36864, -330, \
 37332, 16600, 32214, 5395, 41763, 14463, 29736, 1263, 30180, 16233, \
 50439, 6060, 28397, 18114, 28290, -4221, 43338, 13137, 28398, 6417, \
 33477, 13189, 47580, 1896, 28620, 22695, 28668, 6150, 37746, 13143, \
 39406, -1896, 28632, 14640, 37947, 5490, 28848, 20000, 28851, 1597, \
 53115, 13239, 28896, 6648, 38232, 14922, 41940, -1443, 31572, 18583, \
 34251, 6480, 38295, 13410, 29160, 4464, 29208, 13458, 49593, 5580, \
 36031, 19680, 29277, -372, 38817, 18060, 32436, 7158, 31152, 14670, \
 48600, 1659, 33984, 17515, 32274, 5375, 42510, 15144, 31890, -3963, \
 35025, 13789, 39315, 5730, 31800, 28238, 34338, 1711, 44112, 13803, \
 35273, 6801, 31860, 15974, 43020, -2193, 30168, 17796, 31830, 6480, \
 60466, 13869, 30348, 1195, 31248, 15563, 39999, 6750, 30221, 17980, \
 40248, -1451, 47337, 15366, 35046, 11226, 30528, 14197, 40401, 1617, \
 36047, 24132, 32820, 5898, 40497, 15810, 33498, -1545, 35400, 15366, \
 56705, 5910, 34044, 18345, 30990, 199, 40839, 14307, 32916, 8013, \
 36543, 15560, 47532, -2424, 31140, 24765, 33498, 5975, 44760, 16626, \
 36791, 1380, 34020, 14502, 46164, 5730, 37860, 20155, 31491, -360, \
 56115, 15648, 31668, 8586, 31620, 18948, 47019, 1890, 31561, 18720, \
 43554, 6120, 41940, 14760, 31980, 312, 35136, 16952, 46446, 6435, \
 39778, 18880, 31977, 1664, 54360, 17265, 32058, 7890, 32226, 14863, \
 52904, -462, 33894, 21026, 32310, 5855, 42579, 16122, 42480, 1414, \
 38121, 14929, 46425, 6255, 35304, 29430, 32448, -2076, 42936, 16716, \
 40020, 7872, 37524, 15055, 47190, 414, 32748, 21860, 32781, 7290, \
 65562, 15189, 33096, -1719, 33000, 16890, 50328, 6360, 33001, 21093, \
 43554, 2088, 43695, 17604, 33120, 12694, 35400, 15397, 47628, -1617, \
 45628, 19710, 36684, 7080, 44097, 17172, 33318, 1405, 35820, 15493, \
 55056, 6450, 35124, 22500, 40356, -2425, 51795, 15537, 33714, 7617, \
 41358, 17930, 44625, 1986, 37200, 31041, 33828, 6624, 51726, 17100, \
 39977, -4660, 35880, 15662, 52650, 7620, 36108, 20085, 34191, 1927, \
 56177, 15759, 44604, 8259, 34260, 18337, 50388, -408, 34421, 23750, \
 40398, 6570, 49155, 17040, 34620, 5193, 39648, 17544, 45591, 7290, \
 40751, 23130, 34797, -1727, 45777, 17808, 34818, 7848, 41178, 16003, \
 73665, 1989, 37290, 20682, 34950, 6395, 50328, 18582, 35094, -2310, \
 41217, 17678, 48345, 6720, 40356, 27825, 36918, 1975, 52230, 16263, \

46680, 9540, 35262, 17664, 51414, -5100, 35448, 22635, 40710, 6750, \

58374, 18168, 35508, 1471, 35520, 21672, 51000, 7560, 35861, 21120, \

46680, -432, 59712, 16485, 35820, 15610, 35928, 16477, 47304, 2370, \

46961, 21280, 35967, 7620, 51510, 18519, 41418, -3615, 38232, 17900, \

59360, 6870, 36337, 28154, 39660, 576, 47919, 16647, 38202, 8217, \

49776, 16729, 53958, -399, 39036, 32430, 39678, 8100, 52440, 16923, \

43013, 1461, 36732, 16838, 55920, 6645, 40416, 21730, 36711, -2813, \

67265, 20931, 36936, 8295, 37020, 18858, 48789, 2280, 42480, 24676, \

45387, 7080, 53838, 17040, 39294, 1409, 38232, 17808, 61140, 7170, \

43787, 22020, 42834, 2221, 49257, 20673, 39780, 8922, 37446, 21679, \

61557, -1641, 37457, 22165, 37710, 7025, 63339, 18582, 40932, 1674, \

49776, 17389, 49815, 8370, 37860, 34470, 39840, -414, 50061, 17523, \

51850, 10032, 40644, 17635, 54390, 567, 38208, 26250, 38181, 7290, \

67257, 17709, 41844, -5337, 49560, 19699, 50499, 7350, 38261, 23960, \

45057, 2528, 54930, 19560, 40206, 14010, 38568, 19442, 58716, -480, \

45280, 24631, 38727, 8070, 56544, 23103, 41358}

23A

The first 1750 Fourier coefficients divided by two of the following function:

$$\begin{aligned}
 & -\frac{1}{24} \left((23 \times 2) \phi_2^{(23)}(\tau) + \frac{-23 \times 24}{22} (2f(\tau) - g(\tau)) + \frac{-161 \times 24}{22} g(\tau) \right) \\
 & + \eta(\tau)^3 f_{23}(\tau) + \frac{23}{12} \phi_2^{(2)}(\tau) \\
 & = 46q + 46q^2 + 162q^3 + 20q^4 + 276q^5 + 166q^6 + 368q^7 + \dots
 \end{aligned}$$

{0, 23, 23, 81, 10, 138, 83, 184, 0, 284, 115, 253, 69, 315, 161, \

529, 0, 391, 259, 437, 92, 690, 230, 552, 41, 667, 288, 884, 115, \

658, 460, 717, -38, 1081, 368, 1058, 200, 828, 391, 1216, 46, 903, \

621, 966, 207, 1725, 552, 1053, -44, 1265, 621, 1564, 207, 1196, 786, \

1564, 46, 1771, 597, 1334, 391, 1334, 641, 2300, -115, 1863, 966, \

1495, 276, 2185, 966, 1589, 81, 1620, 759, 2728, 322, 2070, 1112, \

1725, -69, 2668, 844, 1840, 529, 2392, 874, 2651, 115, 1955, 1541, \

2484, 529, 2801, 941, 2622, -207, 2185, 1127, 3404, 487, 2254, 1449, \

2254, 93, 4186, 1058, 2415, 644, 2415, 1426, 3335, -69, 2507, 1587, \

3312, 483, 3979, 1196, 3174, 207, 2967, 1242, 3676, 483, 3404, 2070, \

2828, -253, 3864, 1656, 2947, 713, 3496, 1334, 5267, 115, 2967, 2185, \

3064, 736, 4221, 1459, 3657, -101, 3933, 1491, 4999, 598, 3358, 2508, \

3351, 161, 5129, 1886, 4209, 874, 3427, 1587, 4761, -230, 4416, 2392, \

3586, 667, 6348, 1633, 3680, 276, 4006, 2116, 5704, 690, 3864, 2399, \

5428, -138, 5267, 1771, 3950, 1219, 4048, 2231, 5451, 529, 5014, \

2486, 4738, 759, 7038, 2392, 4163, -464, 4270, 1978, 7383, 896, 4354, \

3082, 4393, 230, 6003, 2024, 5244, 1127, 5543, 2093, 7153, -87, 5290, \

3818, 4600, 851, 6265, 2139, 5796, 268, 5658, 2185, 6441, 1150, 5520, \

3036, 4922, -299, 8803, 2300, 4968, 1242, 5037, 3289, 8510, 228, \

5141, 3611, 6325, 943, 7061, 2852, 5275, -276, 5244, 2645, 8073, 989, \

7498, 3384, 6141, 213, 7452, 3082, 5520, 1610, 6601, 2502, 9522, \

-518, 5625, 3496, 6670, 1311, 8533, 2637, 5819, 299, 7084, 3174, \

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