МИНИСТЕРСТВО НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ РОССИЙСКОЙ ФЕДЕРАЦИИ

ФЕДЕРАЛЬНОЕ ГОСУДАРСТВЕННОЕ БЮДЖЕТНОЕ ОБРАЗОВАТЕЛЬНОЕ УЧРЕЖДЕНИЕ ВЫСШЕГО ОБРАЗОВАНИЯ

«БЕЛГОРОДСКИЙ ГОСУДАРСТВЕННЫЙ ТЕХНОЛОГИЧЕСКИЙ УНИВЕРСИТЕТ им. В. Г. ШУХОВА» (БГТУ им. В.Г. Шухова)

Кафедра программного обеспечения вычислительной техники и автоматизированных систем

Лабораторная работа №6

по дисциплине: Теория информации

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Проверил: Твердохлеб В.В.

Задания:

Пользуясь описанием принципов работы метода LZW из ранее прикрепленных лекционных материалов, выполнить исследование особенностей данного метода кодирования. Для этого требуется:

- 1. Подготовить предварительно сообщения:
- длиной 1000 символов;
- длиной порядка 10000 символов.

Здесь могут быть использованы сообщения любого источника. Его тип необходимо указать. Важно - оба сообщения должны принадлежать источнику одного типа.

- 2. Подготовить сообщение длиной 10000 символов, отличающееся по природе (тип источника) от ранее подготовленного такой же длины.
- 3. Построить обработчик LZW.
- 4. Исследовать зависимость коэффициента сжатия от длины сообщения и его принадлежности к различным источникам.

Выполнение работы

```
def hartley source(length):
    return ''.join(str(random.randint(0, 1)) for _ in range(length))
def get data(path):
    with open(path, 'r') as f:
        return f.read()
def lzw_compress(message):
            result.append(dictionary[buf])
            dictionary[wc] = len(dictionary)
    if buf:
        result.append(dictionary[buf])
    for k in compressed:
           buf = dictionary[k]
        dictionary[len(dictionary)] = prev buf + buf[0]
    return result
print(hartley data 1k)
compressed message 1000 = lzw compress(hartley data 1k)
print("Сообщение длиной 1000 символов (Хартли) с использованием LZW:")
print(compressed message 1000)
decompressed message 1000 = 1zw decompress(compressed message 1000)
print(decompressed message 1000)
print("Исходное сообщение длиной 10000 символов (Хартли):")
print(hartley data 10k)
```

```
compressed message 10000 = lzw compress(hartley data 10k)
print(compressed message 10000)
decompressed message 10000 = 1zw decompress(compressed message 10000)
print(decompressed message 10000)
print("Исходное сообщение длиной 10000 символов (текст):")
print(text data)
compressed message 10000 different = lzw compress(text data)
print(compressed message 10000 different)
decompressed message 10000 different =
1zw decompress (compressed message 10000 different)
print(decompressed message 10000 different)
              -----Замер-эффективноти-сжатия-----
def compression ratio (original size, compressed size):
    return original size / compressed size
compressed size 1000 = len(compressed message 1000)
compressed size 10000 = len(compressed message 10000)
compressed size 10000 different = len(compressed message 10000 different)
compression_ratio_10000 = compression_ratio(original_size_10000, compressed_size_10000)
compressed size 10000 different)
print("Коэффициент сжатия для сообщения длиной 1000 символов (Хартли):",
compression_ratio_1000)
compression_ratio_10000)
print("Коэффициент сжатия для сообщения длиной 10000 символов (текст):",
```

Результат работы программы:

Исходное сообщение длиной 1000 символов (Хартли):

Сообщение длиной 1000 символов (Хартли) с использованием LZW:

```
Сообщение длиной 1000 символов (хартли) с использованием LZW:

[49, 256, 256, 48, 49, 259, 48, 262, 259, 258, 265, 266, 260, 257, 264, 261, 257, 260, 264, 268, 265, 270, 268, 263, 272, 275, 269, 273, 276, 263, 261, 262, 258, 287, 282, 289, 286, 293, 279, 293, 283, 267, 279, 273, 292, 286, 280, 299, 292, 278, 285, 307, 271, 290, 294, 300, 310, 285, 283, 301, 308, 312, 305, 316, 318, 306, 302, 282, 315, 297, 276, 297, 295, 312, 272, 270, 301, 300, 330, 309, 274, 288, 284, 338, 288, 299, 280, 266, 314, 274, 296, 322, 348, 311, 277, 338, 337, 317, 313, 275, 277, 290, 303, 332, 321, 340, 352, 317, 321, 329, 281, 344, 298, 332, 342, 351, 358, 339, 342, 341, 313, 302, 337, 328, 324, 345, 295, 314, 356, 289, 331, 309, 385, 326, 330, 327, 331, 278, 385, 384, 387, 336, 371, 382, 310, 368, 267, 394, 315, 396, 311, 393, 386, 371, 402, 378, 291, 373, 386, 341, 340, 294, 412, 269, 323, 304, 420, 271, 395, 355, 333, 334, 362, 352, 363, 422, 307, 344, 316, 304, 436, 325, 360, 404, 350, 382, 363, 367, 433, 335, 354, 343, 409, 335, 334, 308, 259]

Пекодированное сообщение длиной 1000 символов (Хартли):
```

Исходное сообщение длиной 10000 символов (Хартли):

Сообщение длиной 10000 символов (Хартли) с использованием LZW:

```
[48, 48, 49, 257, 258, 49, 261, 260, 256, 262, 264, 266, 258, 256, 269, 265, 260, 261, 259, 272, 273, 257, 277, 274, 268, 267, 271,
277, 268, 263, 259, 278, 269, 286, 273, 284, 285, 264, 263, 265, 283, 279, 295, 298, 276, 293, 278, 292, 295, 283, 300, 262, 290,
294, 279, 286, 293, 308, 302, 312, 296, 294, 280, 301, 307, 280, 318, 306, 300, 311, 288, 291, 287, 326, 281, 314, 318, 297, 276,
291, 271, 307, 329, 334, 274, 270, 337, 321, 343, 333, 288, 326, 321, 301, 311, 275, 298, 289, 338, 316, 285, 332, 353, 341, 317,
341, 310, 346, 325, 272, 310, 292, 349, 325, 266, 347, 363, 365, 371, 304, 342, 297, 329, 349, 320, 327, 312, 351, 348, 337, 315,
380, 320, 361, 309, 282, 305, 375, 302, 322, 390, 359, 319, 336, 350, 309, 347, 299, 363, 389, 319, 406, 335, 351, 362, 346, 356,
386, 367, 387, 305, 372, 339, 335, 366, 340, 315, 405, 342, 412, 328, 393, 376, 370, 380, 429, 431, 407, 331, 284, 379, 267, 340,
365, 376, 399, 324, 430, 438, 388, 435, 395, 403, 343, 418, 282, 439, 416, 421, 306, 287, 442, 455, 418, 397, 378, 401, 327, 356,
313, 328, 456, 408, 467, 369, 385, 411, 290, 392, 370, 359, 360, 392, 471, 454, 330, 446, 404, 473, 410, 366, 463, 296, 377, 316,
368, 339, 481, 352, 463, 375, 381, 468, 389, 387, 336, 393, 289, 500, 401, 422, 488, 361, 476, 439, 459, 484, 398, 324, 378, 466,
323, 332, 449, 509, 374, 406, 281, 275, 379, 403, 503, 334, 385, 313, 384, 408, 501, 368, 398, 470, 452, 308, 419, 422, 391, 383,
473, 428, 435, 508, 447, 490, 330, 509, 322, 402, 518, 358, 458, 447, 524, 369, 350, 371, 314, 410, 357, 270, 476, 549, 348, 481,
527, 402, 564, 355, 499, 438, 426, 489, 382, 565, 538, 388, 353, 539, 542, 505, 358, 434, 381, 374, 373, 478, 545, 478, 345, 344,
568, 571, 551, 419, 323, 474, 479, 394, 437, 523, 426, 504, 449, 519, 601, 394, 583, 569, 464, 386, 596, 602, 475, 519, 413, 613,
421, 506, 564, 583, 428, 617, 354, 561, 495, 577, 528, 510, 574, 488, 352, 540, 558, 431, 303, 543, 344, 303, 429, 450, 516, 465,
577, 595, 554, 543, 552, 623, 640, 465, 579, 501, 587, 499, 553, 602, 514, 400, 645, 464, 650, 620, 532, 570, 456, 571, 416, 424,
496, 544, 586, 412, 440, 591, 483, 497, 525, 607, 497, 357, 496, 460, 512, 528, 636, 549, 516, 546, 373, 512, 605, 469, 693, 299,
597, 548, 686, 475, 633, 445, 702, 608, 650, 617, 539, 578, 610, 535, 382, 699, 441, 658, 711, 624, 662, 425, 605, 446, 631, 621,
647, 603, 468, 683, 409, 420, 436, 384, 411, 433, 536, 511, 702, 444, 597, 317, 545, 727, 741, 508, 652, 745, 694, 591, 533, 479,
538, 364, 661, 395, 623, 561, 417, 737, 694, 636, 383, 590, 453, 740, 432, 642, 633, 507, 557, 517, 599, 477, 487, 377, 680, 641,
707, 698, 768, 670, 743, 555, 713, 367, 634, 663, 750, 484, 646, 462, 665, 769, 360, 599, 708, 560, 483, 572, 580, 785, 568, 304,
437, 732, 683, 652, 782, 770, 610, 655, 733, 802, 746, 728, 603, 444, 669, 676, 668, 585, 667, 693, 420, 818, 535, 761, 417, 471,
822, 765, 616, 802, 414, 763, 829, 646, 662, 628, 409, 632, 454, 530, 524, 510, 391, 841, 741, 720, 514, 517, 651, 669, 527, 635,
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806, 713, 823, 745, 552, 498, 842, 764, 660, 719, 390, 537, 457, 415, 400, 642, 868, 744, 632, 748, 674, 758, 684, 842, 876, 405,
671, 442, 681, 598, 855, 531, 563, 607, 432, 472, 589, 626, 841, 881, 572, 757, 675, 659, 882, 730, 838, 780, 423, 589, 740, 826,
893, 780, 451, 792, 804, 526, 458, 461, 588, 704, 596, 845, 372, 397, 579, 461, 450, 611, 816, 364, 593, 810, 751, 492, 621, 557,
489, 427, 500, 692, 929, 913, 459, 559, 764, 832, 523, 898, 865, 654, 861, 656, 905, 878, 427, 837, 783, 452, 901, 899, 503, 466,
486, 781, 661, 404, 490, 529, 791, 788, 736, 784, 927, 755, 522, 618, 492, 964, 963, 889, 612, 494, 686, 722, 866, 618, 962, 749,
928, 900, 966, 667, 738, 837, 629, 399, 604, 919, 474, 570, 664, 678, 963, 812, 625, 752, 480, 846, 973, 972, 494, 929, 585, 1004,
746, 902, 687, 671, 922, 676, 956, 470, 362, 849, 562, 609, 430, 812, 643, 854, 747, 684, 853, 795, 542, 830, 687, 862, 861, 926,
913, 628, 522, 962, 619, 665, 695, 903, 798, 937, 560, 537, 717, 507, 940, 722, 486, 626, 843, 726, 679, 882, 978, 839, 1025, 587,
1055, 639, 547, 902, 453, 721, 1036, 914, 1035, 939, 608, 1067, 772, 977, 815, 1019, 565, 1078, 974, 949, 817, 828, 893, 685,
345, 971, 1084, 1059, 876, 789, 888, 631, 773, 705, 911, 531, 592, 682, 815, 884, 1023, 752, 680, 869, 994, 688, 640, 1096, 698,
1094, 566, 935, 653, 1095, 775, 611, 544, 942, 999, 1060, 705, 767, 445, 777, 1120, 666, 1003, 654, 700, 987, 796, 425, 824, 803,
781, 795, 513, 794, 971, 957, 708, 1082, 573, 1106, 533, 630, 785, 457, 917, 657, 1037, 521, 553, 1024, 506, 584, 664, 724, 580,
655, 822, 672, 810, 1038, 558, 932, 974, 995, 1020, 1023, 1150, 622, 968, 480, 754, 581, 656, 1056, 1058, 792, 472, 897, 957,
723, 759, 1014, 567, 943, 331, 643, 737, 1080, 1016, 659, 755, 582, 707, 1185, 809, 354, 850, 491, 998, 593, 1015, 872, 827,
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880, 518, 502, 975, 799, 954, 1167, 482, 905, 355, 948, 890, 725, 803, 1246, 844, 569, 872, 530, 1197, 614, 948, 836, 460, 719,
600, 953, 1241, 1005, 798, 493, 581, 534, 1204, 1050, 1058, 1157, 964, 594, 809, 641, 590, 1109, 1096, 1104, 778, 943, 1158,
1054, 1008, 1125, 1187, 485, 743, 550, 960, 1126, 1055, 976, 960, 1015, 424, 1250, 663, 1272, 738, 945, 998, 639, 1054, 1295,
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1306, 1326, 613, 1198, 1172, 715, 1195, 940, 1252, 1222, 1265, 415, 909, 556, 1348, 1134, 1077, 856, 818, 414, 1115, 756, 493,
1199, 1190, 540, 635, 921, 638, 733, 592, 1220, 1211, 1244, 1347, 800, 1094, 529, 520, 958, 1171, 726, 1387, 832, 1177, 1151,
1350, 1157, 831, 1038, 1286, 1300, 1225, 1212, 808, 576, 768, 1232, 925, 567, 1355, 769, 548, 1179, 1411, 1384, 555, 1306, 407,
1292, 847, 788, 630, 1017, 787, 1110, 574, 1016, 846, 1415, 1121, 1378, 1052, 762, 1213, 1354, 993, 1046, 443, 1398, 918, 766,
1227, 1326, 515, 505, 1165, 670, 1219, 396, 990, 1412, 413, 1106, 1101, 477, 900, 744, 586, 712, 770, 934, 1371, 1336, 1376,
797, 1352, 692, 1170, 859, 793, 1460, 1209, 1029, 551, 1327, 1457, 562, 546, 645, 717, 1108, 1045, 992, 1108, 1008, 958, 1069,
889, 904, 961, 1233, 796, 983, 1391, 622, 813, 482, 811, 918, 691, 1368, 600, 1370, 1076, 1421, 1327, 1403, 1281, 1221, 1344,
1331, 1192, 502, 1017, 1183, 1422, 1029, 863, 1438, 894, 930, 933, 1298, 1210, 993, 1047, 1177, 839, 1335, 1224, 757, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 1001, 
992, 1331, 644, 1449, 440, 955, 690, 778, 1387, 612, 823, 1369, 1065, 979, 1538, 1027, 1330, 1099, 999, 1436, 1486, 1409, 701,
1111, 690, 1068, 575, 1490, 1559]
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Декодированное сообщение длиной 10000 символов (Хартли):

01010010100001110001101000100111110101100101
001010011001110000101000010110110011011
1101111110100011100111001001101001000110000
010001011000001111100111110011011011101111
1011111111000001100101101101001000111111
1100111100111010001011101000101111000000
0000110010010111111000001001100001001111
10001111011101110011100010101111100110011000101
111100001001110010111011111111001110110
01011111111111000110011110111011101110
011011111101011111110110110110110110110
1100100101111000000000000000101101111001110011000101
10011001001111001001010101010101010101111
101111110101111010011010101001001000011011101111
0111110010000101010111110001111110011101110111011101110111011101110111011101110111011100101
0111001111000101101000100010111010001010
110000001111110111000000010011111100100
110011011011011001010001011000100100100
101100001100101101010101011010101010001100101
1010101111101001001111100110001011110101
101100101001000111010101010101010110111011011101100101
011111100010111100110111100011001111111
010000100001100010101111000101101011111010
0011001101101101100100001111100111111001111
01111100001001010101111011110100010000101
1000110100111000011000101001001010010
11101011111100001101100110011101110111
10111000000001110001010100001010011101110000
1100011110011001011100110000010111111101110000
101100001011011100110000011010010111111
000011110010110100101110000010000010100101
00111111101000010011100011000100000011100101
0101010011000001011010001011100010101010
111011010011000110100110110100011010010
1011111011111000001110011110000010101010
01100000001110001101101011010111111111
10000110000101001110001111100111000110001001111
1110101000010010010010111110111101011111
1001000010010010110000100111111110110001100011010
1010001100011010101010101000001111110101
010111001100011011010101010111111110001111
011101000101011011011111111101001000010000
01001110011011011011011010000101011010000
10101011101010011010011100111111111101111
101011100001111101100111101001001001001
101111000111101111100100110111110001001
11111111001000111111001000000111000000101
10010100100100100100100100100000111111010
11011010110110101001001001001111110101111
001111011100001000011111000011001000001110111010
11111001101011111111111101110010110111101111
000101010011111111100000100100110011011
1000000110001101111100000100000001010101
1010111100100001111110101101111000111111
011010011101110011010101011011111101100110011011101110110010000
0100100001100000000001011011100111001
010111110011011101101101101001000010101111
0100000000110001111011011011111001001101111
0000110011000011001011110111101010010001111
100100110100101100011100111011111001001
10000100000101111010101010101010101010
000000010000101

Исходное сообщение длиной 10000 символов (текст):

In one of the remote streets of Moscow, in a gray house with white columns, a mezzanine and a crooked balcony, once lived a lady, a widow, surrounded by numerous servants. Her sons served in St. Petersburg, her daughters got married; she rarely traveled and lived out the last years of her stingy and bored old age in seclusion. Her day, bleak and stormy, had long passed; but her

evening was blacker than night. Of all her servants, the most remarkable person was the janitor Gerasim, a man of twelve inches tall, built like a hero and deaf-mute from birth. The lady took him from the village, where he lived alone, in a small hut, separate from his brothers, and was considered almost the most serviceable draft peasant. Gifted with extraordinary strength, he worked for four people the matter was argued in his hands, and it was fun to look at him when he either plowed and, leaning with huge palms on the plough, it seemed, alone, without the help of a horse, cut the elastic chest of the earth, or on Peters day he acted so crushingly with a scythe that even a young man to sweep the birch forest from the roots down, or he deftly and nonstop thrashed with a three-pronged flail, and the oblong and hard muscles of his shoulders descended and rose like a lever. The constant silence gave solemn importance to his frantic work. He was a nice man, and if it hadnt been for his misfortune, any girl would have willingly married him... But Gerasim was brought to Moscow, they bought him boots, sewed a caftan for the summer, a sheepskin coat for the winter, gave him a broom and a shovel in his hands and identified him as a janitor. He did not like his new life very much at first. Since childhood, he has been accustomed to field work, to rural life. Alienated by his misfortune from the community of people, he grew mute and powerful, like a tree growing on a fertile land... Resettled in the city, he did not understand what was happening to him he was bored and perplexed, as a young, healthy bull, who had just been taken from a field where juicy grass grew up to his belly, was perplexed they took him, put him on a railway carriage and so, showering his fat body with smoke from with sparks, then with wavy steam, they are rushing him now, rushing with a bang and a squeal, but God knows where they are rushing to! Gerasims occupation of his new position seemed to him a joke after the hard work of the peasants; in half an hour everything was ready for him, and again he would stop in the middle of the yard and stare open-mouthed at all those passing by, as if wanting to get them to solve his mysterious situation, then suddenly he would go somewhere into a corner and, throwing his broom and shovel far away, throw himself face down on the ground and lie for hours motionless on his chest, like a trapped animal. But a person gets used to everything, and Gerasim finally got used to city life. He didnt have much to do.; his whole duty was to keep the yard clean, bring a barrel of water twice a day, carry and chop firewood for the kitchen and house, but not to let strangers in and watch at night. And I must say, he diligently fulfilled his duty: there were never any splinters or litter in his yard; whether a broken nag, a water cart, given under his command, would get stuck somewhere with a barrel in a dirty season, he would only move his shoulder - and not only the cart, but the horse itself would push off; whether there was firewood when he starts stabbing, his axe rings like glass, and shards and logs fly in all directions; and as for strangers, so after he caught two thieves one night, bumped their foreheads against each other, so much so that even if you didnt take them to the police later, everyone in the neighborhood began to respect him very much; even during the day, those who passed by were no longer scammers, but just strangers. at the sight of the formidable janitor, they waved and shouted at him, as if he could hear their screams. With the rest of the household, Gerasim was in a relationship not that friendly they were afraid of him but short: he considered them to be his own. They communicated with him by signs, and he understood them, followed all orders exactly, but he also knew his rights, and no one dared to sit in his place at the table. In general, Gerasim was of a strict and serious disposition, he loved order in everything; even the roosters did not dare to fight with him, otherwise it would be a disaster! He sees it, immediately grabs it by the legs, turns the wheel ten times in the air and throws it apart. There were geese in the ladys yard, too; but the goose, it is known, is an important and prudent bird; Gerasim felt respect for them, followed them and fed them; he himself looked like a sedate gander. They gave him a cubbyhole over the kitchen; he arranged it for himself, according to his taste, built in it a bed of oak planks on four blocks, a truly heroic bed; a hundred pounds could be put on it it would not bend; there was a hefty chest under the bed; in the corner there was a table of the same strong quality, and near the table there was a chair for three legs, but so sturdy and squat that Gerasim himself would pick it up, drop it and grin. The closet was locked with a lock that resembled a roll in its appearance, only black; Gerasim always carried the key to this lock on his belt. He didnt like to be visited. So a year passed, at the end of which a small incident happened to Gerasim. The old lady, with whom he lived in the janitors, followed ancient customs in everything and kept numerous servants; in her house there were not only laundresses, seamstresses, carpenters, tailors and dressmakers, there was even one saddler, he was also considered a veterinarian and a doctor for people, there was a home doctor for the mistress, there was Finally, there is a shoemaker named Kapiton Klimov, a drunkard named Gorky. Klimov considered himself an offended and unappreciated being, an educated and metropolitan man who would not live in Moscow, idle, in some backwater, and if he drank, as he himself expressed himself with deliberation and knocking on his chest, then he was already drinking out of grief. One day the lady and her head butler, Gavrila, talked about him, a man who, judging by his yellow eyes and duck nose alone, fate itself seemed to have determined to be a commanding person. The lady regretted the spoiled morality of Kapiton, who had just been found somewhere on the street the day before. Well, Gavrila, she suddenly began, shouldnt we marry him off, what do you think? Maybe hell settle down. Why not get married, sir! It is possible, sir, Gavrila replied, and it will be very good, sir. Yes, but who will marry him? Of course, sir. However, as you wish, sir. Still, he may be needed for something, so to speak; you cant throw him out of a dozen. Does he seem to like Tatiana? Gavrila wanted to object, but pressed his lips together. - yes!.. let him woo Tatiana, the lady decided, sniffing the tobacco with pleasure, do you hear? Im listening, sir, Gavrila said and left. Returning to his room (it was in the wing and was almost completely cluttered with wrought-iron chests), Gavrila first sent his wife out, and then sat down by the window and thought. The unexpected order of the lady apparently puzzled him. Finally he got up and ordered Kapiton to be called. Kapiton appeared... But before we pass on their conversation to the readers, we consider it useful to tell in a few words who this Tatiana was, whom Kapiton had to marry, and why the ladys command confused the butler. Tatiana, who, as we said above, was a laundress (however, as a skilled and learned laundress, she was entrusted with only fine linen), was a woman of about twenty years old, small, thin, blond, with moles on her left cheek. Moles on the left cheek are revered in Russia as a bad omen a foreshadowing of an unhappy life... Tatiana could not boast of her fate. From an early age, she was kept in a black body; she worked for two, but she never saw any affection; she was poorly dressed, she received the smallest salary; She didnt have any relatives anyway: one old housekeeper, left behind for unfitness in the village, was her uncle, and her other uncles were peasants, that all. She was once reputed to be a beauty, but her beauty soon slipped away. She was of a very humble disposition, or, better to say, intimidated, she felt complete indifference to herself, was mortally afraid of others; she only thought about how to finish her work on time, never spoke to anyone and trembled at the very name of the lady, although she almost did not know her by sight. When Gerasim was brought from the village, she almost froze with horror at the sight of his huge figure, tried in every possible way not to meet him, even blinked, sometimes

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when she happened to run past him, hurrying from home to the laundry. At first Gerasim did not pay much attention to her, then
he began to laugh when he came across her, then he began to look at her, and finally he did not take his eyes off her at all. He fell
in love with her; whether by the meek expression of her face, or by the timidity of her movements, God knows! One day she was
making her way through the yard, carefully lifting the starched ladys jacket on her outstretched fingers... Someone suddenly
grabbed her elbow hard; she turned around and screamed: Gerasim was standing behind her. Laughing stupidly and humming
affectionately, he handed her a gingerbread cockerel with gold leaf on its tail and wings. She wanted to refuse, but he forcibly
shoved it right into her hand, shook his head, walked away and, turning around, once again mumbled something very friendly to
her. From that day on, he wouldnt let her rest: wherever she went, he was right there, walking towards her, smiling, mumbling,
waving his hands, suddenly pulling the ribbon out of his bosom and thrusting it at her, clearing the dust in front of her with a
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Декодированное сообщение длиной 10000 символов (текст):

In one of the remote streets of Moscow, in a gray house with white columns, a mezzanine and a crooked balcony, once lived a lady, a widow, surrounded by numerous servants. Her sons served in St. Petersburg, her daughters got married; she rarely traveled and lived out the last years of her stingy and bored old age in seclusion. Her day, bleak and stormy, had long passed; but her evening was blacker than night. Of all her servants, the most remarkable person was the janitor Gerasim, a man of twelve inches tall, built like a hero and deaf-mute from birth. The lady took him from the village, where he lived alone, in a small hut, separate from his brothers, and was considered almost the most serviceable draft peasant. Gifted with extraordinary strength, he worked for four people the matter was argued in his hands, and it was fun to look at him when he either plowed and, leaning with huge palms on the plough, it seemed, alone, without the help of a horse, cut the elastic chest of the earth, or on Peters day he acted so crushingly with a scythe that even a young man to sweep the birch forest from the roots down, or he deftly and nonstop thrashed with a three-pronged flail, and the oblong and hard muscles of his shoulders descended and rose like a lever. The constant silence gave solemn importance to his frantic work. He was a nice man, and if it hadnt been for his misfortune, any girl would have willingly married him... But Gerasim was brought to Moscow, they bought him boots, sewed a caftan for the summer, a sheepskin coat for the winter, gave him a broom and a shovel in his hands and identified him as a janitor. He did not like his new life very much at first. Since childhood, he has been accustomed to field work, to rural life. Alienated by his misfortune from the community of people, he grew mute and powerful, like a tree growing on a fertile land... Resettled in the city, he did not understand what was happening to him he was bored and perplexed, as a young, healthy bull, who had just been taken from a field where juicy grass grew up to his belly, was perplexed they took him, put him on a railway carriage and so, showering his fat body with smoke from with sparks, then with wavy steam, they are rushing him now, rushing with a bang and a squeal, but God knows where they are rushing to! Gerasims occupation of his new position seemed to him a joke after the hard work of the peasants; in half an hour everything was ready for him, and again he would stop in the middle of the yard and stare open-mouthed at all those passing by, as if wanting to get them to solve his mysterious situation, then suddenly he would go somewhere into a corner and, throwing his broom and shovel far away, throw himself face down on the ground and lie for hours motionless on his chest, like a trapped animal. But a person gets used to everything, and Gerasim finally got used to city life. He didnt have much to do.; his whole duty was to keep the yard clean, bring a barrel of water twice a day, carry and chop firewood for the kitchen and house, but not to let strangers in and watch at night. And I must say, he diligently fulfilled his duty; there were never any splinters or litter in his yard; whether a broken nag, a water cart, given under his command, would get stuck somewhere with a barrel in a dirty season, he would only move his shoulder - and not only the cart, but the horse itself would push off; whether there was firewood when he starts stabbing, his axe rings like glass, and shards and logs fly in all directions; and as for strangers, so after he caught two thieves one night, bumped their foreheads against each other, so much so that even if you didnt take them to the police later, everyone in the neighborhood began to respect him very much; even during the day, those who passed by were no longer scammers, but just strangers. at the sight of the formidable janitor, they waved and shouted at him, as if he could hear their screams. With the rest of the household, Gerasim was in a relationship not that friendly they were afraid of him but short: he considered them to be his own. They communicated with him by signs, and he understood them, followed all orders exactly, but

he also knew his rights, and no one dared to sit in his place at the table. In general, Gerasim was of a strict and serious disposition, he loved order in everything; even the roosters did not dare to fight with him, otherwise it would be a disaster! He sees it, immediately grabs it by the legs, turns the wheel ten times in the air and throws it apart. There were geese in the ladys yard, too; but the goose, it is known, is an important and prudent bird; Gerasim felt respect for them, followed them and fed them; he himself looked like a sedate gander. They gave him a cubbyhole over the kitchen; he arranged it for himself, according to his taste, built in it a bed of oak planks on four blocks, a truly heroic bed; a hundred pounds could be put on it it would not bend; there was a hefty chest under the bed; in the corner there was a table of the same strong quality, and near the table there was a chair for three legs, but so sturdy and squat that Gerasim himself would pick it up, drop it and grin. The closet was locked with a lock that resembled a roll in its appearance, only black; Gerasim always carried the key to this lock on his belt. He didnt like to be visited. So a year passed, at the end of which a small incident happened to Gerasim. The old lady, with whom he lived in the janitors, followed ancient customs in everything and kept numerous servants; in her house there were not only laundresses, seamstresses, carpenters, tailors and dressmakers, there was even one saddler, he was also considered a veterinarian and a doctor for people, there was a home doctor for the mistress, there was Finally, there is a shoemaker named Kapiton Klimov, a drunkard named Gorky. Klimov considered himself an offended and unappreciated being, an educated and metropolitan man who would not live in Moscow, idle, in some backwater, and if he drank, as he himself expressed himself with deliberation and knocking on his chest, then he was already drinking out of grief. One day the lady and her head butler, Gavrila, talked about him, a man who, judging by his yellow eyes and duck nose alone, fate itself seemed to have determined to be a commanding person. The lady regretted the spoiled morality of Kapiton, who had just been found somewhere on the street the day before. Well, Gavrila, she suddenly began, shouldnt we marry him off, what do you think? Maybe hell settle down. Why not get married, sir! It is possible, sir, Gavrila replied, and it will be very good, sir. Yes, but who will marry him? Of course, sir. However, as you wish, sir. Still, he may be needed for something, so to speak; you cant throw him out of a dozen. Does he seem to like Tatiana? Gavrila wanted to object, but pressed his lips together. - yes!.. let him woo Tatiana, the lady decided, sniffing the tobacco with pleasure, do you hear? Im listening, sir, Gavrila said and left. Returning to his room (it was in the wing and was almost completely cluttered with wrought-iron chests), Gavrila first sent his wife out, and then sat down by the window and thought. The unexpected order of the lady apparently puzzled him. Finally he got up and ordered Kapiton to be called. Kapiton appeared... But before we pass on their conversation to the readers, we consider it useful to tell in a few words who this Tatiana was, whom Kapiton had to marry, and why the ladys command confused the butler. Tatiana, who, as we said above, was a laundress (however, as a skilled and learned laundress, she was entrusted with only fine linen), was a woman of about twenty years old, small, thin, blond, with moles on her left cheek. Moles on the left cheek are revered in Russia as a bad omen a foreshadowing of an unhappy life... Tatiana could not boast of her fate. From an early age, she was kept in a black body; she worked for two, but she never saw any affection; she was poorly dressed, she received the smallest salary; She didnt have any relatives anyway: one old housekeeper, left behind for unfitness in the village, was her uncle, and her other uncles were peasants, thats all. She was once reputed to be a beauty, but her beauty soon slipped away. She was of a very humble disposition, or, better to say, intimidated, she felt complete indifference to herself, was mortally afraid of others; she only thought about how to finish her work on time, never spoke to anyone and trembled at the very name of the lady, although she almost did not know her by sight. When Gerasim was brought from the village, she almost froze with horror at the sight of his huge figure, tried in every possible way not to meet him, even blinked, sometimes when she happened to run past him, hurrying from home to the laundry. At first Gerasim did not pay much attention to her, then he began to laugh when he came across her, then he began to look at her, and finally he did not take his eyes off her at all. He fell in love with her; whether by the meek expression of her face, or by the timidity of her movements, God knows! One day she was making her way through the yard, carefully lifting the starched ladys jacket on her outstretched fingers... Someone suddenly grabbed her elbow hard; she turned around and screamed: Gerasim was standing behind her. Laughing stupidly and humming affectionately, he handed her a gingerbread cockerel with gold leaf on its tail and wings. She wanted to refuse, but he forcibly shoved it right into her hand, shook his head, walked away and, turning around, once again mumbled something very friendly to her. From that day on, he wouldnt let her rest: wherever she went, he was right there, walking towards her, smiling, mumbling, waving his hands, suddenly pulling the ribbon out of his bosom and thrusting it at her, clearing the dust in front of her with a

Вывод: в ходе лабораторной работы был изучен метод LZW и построен обработчик. После применения метода на двух разных источниках сообщений (источник Хартли и обычный текст) можно заметить, что сообщение от источника Хартли сжалось гораздо лучше, чем обычный текст.