Метод блочного скрытия

**Цель работы**

Произвести скрытое встраивание текстового сообщения внутрь картинки методом блочного скрытия. Ознакомиться на практике с простейшими вариантами алгоритмов стеганографического встраивания для изображений и их характеристиками.

**Задачи**

1. Представить текст сообщения в виде последовательности бит (см. Лаб 4).

2. Реализовать простейшую операцию стеганографического встраивания текста внутрь изображения в .bmp формате:

· прочитать содержимое будущего контейнера -- файла-изобажения в .bmp формате;

· обойти подряд пиксели контейнера по числу бит в побитовом представлении строки скрываемого сообщения;

· проставить младший бит пикселя контейнера в значение, равное значению соответствующего бита встраиваемого текста (как и лаб 4 в качестве окончания сообщения используйте символ или набор символов, которые заведомо не встретятся в вашем скрываемом тексте);

· Сохранить результат в виде картинки в .bmp формате.

3. Реализовать обратную операция чтения встроенного сообщения из картинки-контейнера.

4. Модифицировать алгоритм встраивания.

Теперь вы обходите не пиксели контейнера а его блоки определенного размера (1x1, 2x2, 3x3 и т.д.) и модифицируете младший бит одного из пикселей блока (пиксель выбирается случайно) так, чтобы:

· если вы пишете единицу, сложение по модулю два (xor) младших бит всех пикселей блока должно давать в результате 1;

если вы пишете ноль, то сложение по модулю два (xor) младших бит всех пикселей блока должно давать в результате 0.

**Код**

def text\_to\_bit(text):

  return ''.join(format(ord(x), 'b') for x in text)

def bit\_to\_text(bin\_text):

  return ''.join(chr(int(str(x), 2)) for x in bin\_text)

#функция для преобразования бинарного изображения в виде вектора;

def convertFile(filename):

    image = cv2.imread(filename, cv2.IMREAD\_GRAYSCALE)

    vectorImage = np.reshape(image, -1) #преобразуем в вектор

    vectorImage = vectorImage.tolist()

    return vectorImage

def hw(filename):

    image = Image.open(filename, 'r')

    width, height = image.size

    return width, height

# функция записи в изображение

def pervertFile(image\_vector, filename, oldfilename):

  width, height = hw(oldfilename)

  vectorImage = np.reshape(image\_vector, (height, width ))

  cv2.imwrite(filename, vectorImage)

def Encode(image\_src, text):

  content = convertFile(image\_src)

  bit\_text = binary\_text(text)

  new\_bit\_cont=''

  for i in range((len(text)\*8)):

    bit\_cont =binary\_value(content[i], 8)

    if bit\_text[i] == bit\_cont[7]:

      new\_bit\_cont+=bit\_cont

    else:

      new\_bit\_cont\_it =''.join([bit\_cont[i] for i in range(len(bit\_cont)) if i != 7])

      new\_bit\_cont\_it +=bit\_cont[7].replace(bit\_cont[7], bit\_text[i])

      new\_bit\_cont+=new\_bit\_cont\_it

  int\_arr = reverce\_binary\_str(new\_bit\_cont)

  print(int\_arr)

  new\_array = np.asarray(int\_arr[:len(int\_arr)]+content[len(int\_arr):])

  return(new\_array)

# строка '01101000100001001010001...' ->[24, 54, 24...]

def reverce\_binary\_str(str\_bit):

  l=[]

  for j in range(0, len(str\_bit), 8):

    l.append(reverce\_binary\_value(str\_bit[j:j+8]))

  return l

# '01100000'-> 96, bite в int

def reverce\_binary\_value(val):

    binval = int(val, 2)

    return binval

#int значение в bite

def binary\_value(val, bitsize):

        binval = bin(val)[2:]

        if len(binval) > bitsize:

            print("binary value larger than the expected size")

        while len(binval) < bitsize:

          binval = "0"+binval

        return binval

def binary\_text(text):

    bit\_text=''

    for char in text:

      bit = binary\_value(ord(char), 8)

      bit\_text += bit

    return bit\_text

Выполнение

text='AB'

a = Encode('/content/drive/MyDrive/pyth/textpath/cript/Fox-078.png', text)

print(a)

m = hw('/content/drive/MyDrive/pyth/textpath/cript/Fox-078.png')

pervertFile(a, '/content/drive/MyDrive/pyth/textpath/cript/Fox\_new1.png', '/content/drive/MyDrive/pyth/textpath/cript/Fox-078.png' )

Исходное изображение



Изображение с зашифрованным текстом



Измененные методы

def blok\_size(blok, content):

    start = 0

    end = blok

    start\_str = 0

    end\_str = blok

    pixelInBlock = []

    for i in range(start\_str, end\_str):

        for j in range(start, end):

            pixelInBlock.append(content[i][j])

    return pixelInBlock

def new\_xor(pixelInBlock):

  res = binary\_value(pixelInBlock[0], 8)

  #print(pixelInBlock[0])

  for i in range(1, len(pixelInBlock)):

    res = int(res)^int(binary\_value(pixelInBlock[1], 8))

    #print(res)

  return res

def Encode\_new(image\_src, text, blok):

  content = convertFile(image\_src)

  cont\_dop =convertFile\_vector(image\_src)

  bit\_text = binary\_text(text+'$')

  a = 0

  b = blok

  c =0

  d =blok

  for ch in range(len(bit\_text)):

    pixelInBlock = []

    for i in range(c, d):

        for j in range(a, b):

            pixelInBlock.append(content[i][j])

    if new\_xor(pixelInBlock) != int(bit\_text[ch]):

      pix =binary\_value(pixelInBlock[0], 8)

      if pix [len(pix)-1]=='0':

        pix1 = pix[:len(pix)-1] +'1'

        #print("0->1")

        content[i][j]= reverce\_binary\_value(pix1)

      else:

        pix1 = pix [:len(pix)-1] +'0'

        #print("1->0")

        content[i][j]= reverce\_binary\_value(pix1)

    a += blok

    b = a+blok

    if(b>len(content[i])):

        a = 0

        b = blok

        c = d

        d = d + blok

        if b >len(content):

          print("END")

          break

  return content

#функция обратного чтения встроенного сообщения

def readOut(imgName, block):

    content = convertFile(imgName)

    message = ''

    bin\_ch = ''

    ch = ''

    a = 0

    b = block

    c =0

    d =block

    while(True):

        pixelInBlock = []

        for i in range(c, d):

          for j in range(a, b):

            pixelInBlock.append(content[i][j])

        bin\_ch = bin\_ch + str((binary\_value(content[i][j], 8)[7]))

        if len(bin\_ch) == 8:

          new\_bin =''

          for w in bin\_ch:

            if w == '0':

              new\_bin+= '1'

            else:

              new\_bin+= '0'

          ch = reverce\_binary\_value(bin\_ch)

          if reverce\_binary\_value(new\_bin) == ord('$'):

            print("НАШЕЛСЯ")

            break

          else:

            message = message+str(reverce\_binary\_value(new\_bin))

            bin\_ch =''

            #print(message)

        a+=blok

        b=b+blok

        if(b>len(content[i])):

            a = 0

            b = blok

            c = d

            d = d + blok

        if b >len(content):

          print("END")

          break

    print(message)

def getEntropy(imageName):

    content = convertFile\_vector(imageName)

    symbols = list(set(content))

    p = [content.count(symb)/len(content) for symb in symbols]

    symb\_p = {symbols[i]: p[i] for i in range(0, len(p))}

    entropy = 0

    for ch in content:

        entropy += symb\_p[ch]\*np.math.log(1/symb\_p[ch], 10)

    return entropy

|  |  |  |  |
| --- | --- | --- | --- |
| Размер блоков | Число блоков по горизонтали | Максимальный размер встраиваемого сообщения | Пропускная способность |
| 1×1 | 544\*544 | 32775 | 0,11 |
| 2×2 | 272\*272 | 8193 | 0,1107 |
| 4×4 | 136\*136 | 2012 | 0,108 |
| 16×16 | 34\*34 | 25 | 0,0216 |
| 32×32 | 17\*17 | 5 | 0,0173 |
| 64×64 | - | - | - |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Размер блоков | Число блоков по горизонтали | Размер встраиваемого сообщения | Энтропия до встраивания | Энстромия после |
| 1×1 | 544\*544 | 32775 | 31787.75 | 31782.16 |
| 2×2 | 272\*272 | 8193 | 31787.75 |  |
| 4×4 | 136\*136 | 2012 | 31787.75 | 30532.842 |
| 16×16 | 34\*34 | 25 | 31787.75 | 31768.10 |
| 32×32 | 17\*17 | 5 | 31787.75 | 31784.13 |
| 64×64 | - | - | - | - |

**Выводы**

Встраиваемое сообщение практически незаметно, изменился немного тон пиксилей. Если сохранить картинку не в формате png, данные с карьтнки не сохраняются, расшифровать невозможно.

**Приложение**

Исходное изображение ( кодируется в черно-белом формате)



1×1 Изображение со спрятанным текстом



Текст: hellhgcfxdsgvdsvhbknmjgfdvmkkkkdskdthbknmkgvgvggchdjnvtfxzxdxdzdxgcnmkggdsgvhbknmkgvgvggcfxzxdxdzdsgvhbknmkgvgvggcfxzxdxdzdxgcnmkgdsgvhbknmkgvgvggcfxzxdxdzdxgcnmkgdxgcnmkgvgvggcfxzxdxdzdxgcnmkgdsgvhbknmkgvgvggcfxzxdxdzdxgcnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssfxdssggcfxdsgvhbnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssgvhghgvgvgcfcgnsrtyukxdxjxkjhgfdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezecfxdsszezefcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezehgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezecvghbjhnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvnhgvhghgvgvgnhgvhghgnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezevgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezecfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezeggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezecv\_bnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezehghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezedzdxgvhbknmkgvgvggcfxdsszezesesgvgcfcfewertyuiol7mnbvcxsedrtyhnbvcxsdedxcfgfertyuikmnbvcxdfghjmnbvcdfghjmnbvcfgyjkmnbvftgyjmnbvcfdtgyjmnbvcfghjmnbvfgyhjmnbvfgyujmnbvfghjnbvfgyhjmnbvfghnvfghnjbvfghjmnbvfgyhjnb\_vfrtyhjnbvcdftgyhvcvf\_bhnfcfcgcytdcvhfhygvbhbjhbhbvhvgcfdsasderytgvhbhygc\_vghcfgcggvgvcfvghvghvghcgcgfcfcfxdswaszdcgbjmktyuioiuytrewertyuiol\_mnbvcxsdrtyhnbvfgthfggfnbvgvgvgcgfvhmbhvcgcggvcf\_vbnhvgcf\_vbhgcvhjbgftvtghogvcfdhellhgtngvcfdxdxdzdxgvhbknmkgvghghgvgvgcfcgvsxdxdxdxdcfddxdzdxgvhbknmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdsszezenhnmkgvgvnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssfxdssggcfxdsgvhbnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssgvhghgvgvgcfcgnsrtyukxdxjxkjhgfdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezecfxdsszezefcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezehgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezecvghbjhnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvnhgvhghgvgvgnhgvhghgnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezevgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezecfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezeggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezecv\_bnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezehghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezedzdxgvhbknmkgvgvggcfxdsszezesesgvgcfcfewertyuiol7mnbvcxsedrtyhnbvcxsdedxcfgfertyuikmnbvcxdfghjmnbvcdfghjmnbvcfgyjkmnbvftgyjmnbvcfdtgyjmnbvcfghjmnbvfgyhjmnbvfgyujmnbvfghjnbvfgyhjmnbvfghnvfghnjbvfghjmnbvfgyhjnb\_vfrtyhjnbvcdftgyhvcvf\_bhnfcfcgcytdcvhfhygvbhbjhbhbvhvgcfdsasderytgvhbhygc\_vghcfgcggvgvcfvghvghvghcgcgfcfcfxdswaszdcgbjmktyuioiuytrewertyuiol\_mnbvcxsdrtyhnbvfgthfggfnbvgvgvgcgfvhmbhvcgcggvcf\_vbnhvgcf\_vbhgcvhjbgftvtghoxdxdzdxgvhellhgtngvcfdxdxdzdxgvhbknmkgvghghgvgvgcfcgvsxdxdxdxdcfddxdzdxgvhbknmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdsszezenhnmkgvgvnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssfxdssggcfxdsgvhbnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssgvhghgvgvgcfcgnsrtyukxdxjxkjhgfdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezecfxdsszezefcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezehgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfd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2×2



Текст: hellhgcfxdsgvdsvhbknmjgfdvmkkkkdskdthbknmkgvgvggchdjnvtfxzxdxdzdxgcnmkggdsgvhbknmkgvgvggcfxzxdxdzdsgvhbknmkgvgvggcfxzxdxdzdxgcnmkgdsgvhbknmkgvgvggcfxzxdxdzdxgcnmkgdxgcnmkgvgvggcfxzxdxdzdxgcnmkgdsgvhbknmkgvgvggcfxzxdxdzdxgcnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssfxdssggcfxdsgvhbnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssgvhghgvgvgcfcgnsrtyukxdxjxkjhgfdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezecfxdsszezefcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezehgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezecvghbjhnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvnhgvhghgvgvgnhgvhghgnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezevgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezecfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezeggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezecv\_bnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezehghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezedzdxgvhbknmkgvgvggcfxdsszezesesgvgcfcfewertyuiol7mnbvcxsedrtyhnbvcxsdedxcfgfertyuikmnbvcxdfghjmnbvcdfghjmnbvcfgyjkmnbvftgyjmnbvcfdtgyjmnbvcfghjmnbvfgyhjmnbvfgyujmnbvfghjnbvfgyhjmnbvfghnvfghnjbvfghjmnbvfgyhjnb\_vfrtyhjnbvcdftgyhvcvf\_bhnfcfcgcytdcvhfhygvbhbjhbhbvhvgcfdsasderytgvhbhygc\_vghcfgcggvgvcfvghvghvghcgcgfcfcfxdswaszdcgbjmktyuioiuytrewertyuiol\_mnbvcxsdrtyhnbvfgthfggfnbvgvgvgcgfvhmbhvcgcggvcf\_vbnhvgcf\_vbhgcvhjbgftvtghogvcfdhellhgtngvcfdxdxdzdxgvhbknmkgvghghgvgvgcfcgvsxdxdxdxdcfddxdzdxgvhbknmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdsszezenhnmkgvgvnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssfxdssggcfxdsgvhbnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssgvhghgvgvgcfcgnsrtyukxdxjxkjhgfdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezecfxdsszezefcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezehgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezecvghbjhnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvnhgvhghgvgvgnhgvhghgnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezevgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezecfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezeggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezecv\_bnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezehghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezedzdxgvhbknmkgvgvggcfxdsszezesesgvgcfcfewertyuiol7mnbvcxsedrtyhnbvcxsdedxcfgfertyuikmnbvcxdfghjmnbvcdfghjmnbvcfgyjkmnbvftgyjmnbvcfdtgyjmnbvcfghjmnbvfgyhjmnbvfgyujmnbvfghjnbvfgyhjmnbvfghnvfghnjbvfghjmnbvfgyhjnb\_vfrtyhjnbvcdftgyhvcvf\_bhnfcfcgcytdcvhfhygvbhbjhbhbvhvgcfdsasderytgvhbhygc\_vghcfgcggvgvcfvghvghvghcgcgfcfcfxdswaszdcgbjmktyuioiuytrewertyuiol\_mnbvcxsdrtyhnbvfgthfggfnbvgvgvgcgfvhmbhvcgcggvcf\_vbnhvgcf\_vbhgcvhjbgftvtghoxdxdzdxgvhellhgtngvcfdxdxdzdxgvhbknmkgvghghgvgvgcfcgvsxdxdxdxdcfddxdzdxgvhbknmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdsszezenhnmkgvgvnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssfxdssggcfxdsgvhbnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssgvhghgvgvgcfcgnsrtyukxdxjxkjhgfdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezecfxdsszezefcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezehgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfd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4×4



Текст: hellhgtngvcfdxdxdzdxgvhbknmkgvghghgvgvgcfcgvsxdxdxdxdcfddxdzdxgvhbknmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdsszezenhnmkgvgvnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssfxdssggcfxdsgvhbnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssnmkgvgvggcfxdsgvhbknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssknmkgvgvggcfxdssgfvbvzezxdxdzdxgcfxdssgvhghgvgvgcfcgnsrtyukxdxjxkjhgfdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezecfxdsszezefcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezehgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezecvghbjhnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvnhgvhghgvgvgnhgvhghgnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezevgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezecfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezeggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezecv\_bnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezenhgvnhgvhghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezehghgvgvgcfcgvsxdxdxdxdcfdxdxdzdxgvhbknmkgvgvggcfxdsszezedzdxgvhbknmkgvgvggcfxdsszezesesgvgcfcfewertyuiol7mnbvcxsedrtyhnbvcxsdedxcfgfertyuikmnbvcxdfghjmnbvcdfghjmnbvcfgyjkmnbvftgyjmnbvcfdtgyjmnbvcfghjmnbvfgyhjmnbvfgyujmnbvfghjnbvfgyhjmnbvfghnvfghnjbvfghjmnbvfgyhjnb\_vfrtyhjnbvcdftgyhvcvf\_bhnfcfcgcytdcvhfhygvbhbjhbhbvhvgcfdsasderytgvhbhygc\_vghcfgcggvgvcfvghvghvghcgcgfcfcfxdswaszdcgbjmktyuioiuytrewertyuiol\_mnbvcxsdrtyhnbvfgthfggfnbvgvgvgcgfvhmbhvcgcggvcf\_vbnhvgcf\_vbhgcvhjbgftvtgho

16×16



Текст: dfcvgbhnjhgfdc\_vbhgfdcvbb

32×32



Текст: hello