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        "** Декоратор для замера времени выполнения функции"
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        "    return a"
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        "def time_of_function(func):\n",
        "    def wrapped(*args):\n",
        "        t1 = time.time()\n",

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        "        result = func(*args)\n",
        "        t2 = time.time()\n",
        "        print(f'Функция {func.__name__!r} выполнялась {(t2-
t1):.4f}s')\n",
        "        return result\n",
        "        return wrapped"
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        "Задача: Реализовать алгоритм сортировки пузырьком и оценить его
производительность\n",
        "на случайных данных различного размера. Сравнить время
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        "Сортировка пузырьком – это метод сортировки массивов и списков
путем последовательного сравнения и обмена соседних элементов, если
предшествующий оказывается больше последующего (при сортировке по
возрастанию).\n",
        "\n",
        "В процессе выполнения данного алгоритма элементы с большими
значениями оказываются в конце списка, а элементы с меньшими значениями
постепенно перемещаются по направлению к началу списка. Образно говоря,
тяжелые элементы падают на дно, а легкие медленно всплывают подобно
пузырькам воздуха. При этом в начале сортировки отсортированным
становится конец списка, а не его начало.\n",
        "\n",
        "В сортировке методом пузырька количество итераций внешнего цикла
определяется длиной списка минус единица, так как когда второй элемент
становится на свое место, то первый уже однозначно минимальный и не
требует сортировки.\n",
        "\n"
    ]
}

```

"Количество итераций внутреннего цикла зависит от номера итерации внешнего цикла, так как конец списка уже отсортирован, и выполнять проход по этим элементам смысла нет."

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      "def bubble(a, N):\n",
      "    for i in range(N-1): # Внешний цикл\n",
      "        for j in range(N-i-1): # Внутренний цикл\n",
      "            if a[j] > a[j+1]:\n",
      "                a[j], a[j+1] = a[j+1], a[j]\n",
      "\n",
      "    return a\n",
      "\n",
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      "print(bubble(lst1, 1000))\n",
      "print(bubble(lst2, 10000))"
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    "        temp = alist[i]\n",
    "        j = i - 1 # При первой итерации отсортированная часть
пустая, дальше она расширяется\n",
    "        while (j >= 0 and temp < alist[j]):\n",
    "            alist[j + 1] = alist[j]\n",
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    "            alist[j + 1] = temp\n",
    "    return alist\n",
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"В лучшем случае время работы будет линейным $O(n)$, в худшем — квадратичным $O(n^2)$ \n",

"\n",

"Если массив уже упорядочен, то все элементы останутся на своем месте и вложенный цикл не будет выполнен ни разу. В этом случае сложность алгоритма сортировки вставками — линейная.\n",

"\n",

"Если массив «почти упорядочен», то есть для превращения его в упорядоченный нужно поменять местами несколько соседних или близких элементов, то сложность также будет линейной."

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"Задача: Создать функцию для сортировки слиянием и протестировать ее на больших\n",

"объемах данных. Сравнить время выполнения с другими алгоритмами, особенно на\n",

"списке, частично упорядоченном."

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"Суть сортировки слиянием — это взять список, разделить его пополам, затем еще пополам и еще, пока у вас не окажется куча списков с длиной, равной единице. После этого нужно выстроить элементы в пары, располагая их в правильном порядке, а затем соединять эти пары вместе, образуя все большие упорядоченные группы, до тех пор, пока не получите целый отсортированный список."

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"    return merge_sort(n)\n",
"\n",
"def merge_sort(nums):\n",
"    if len(nums) > 1:\n",
"        mid = len(nums) // 2 # Делим список напополам\n",
"        left = nums[:mid] # Левая половина\n",
"        right = nums[mid:] # Правая половина\n",
"        merge_sort(left) # Рекурсивно делим левую и правую
половину\n",
"        merge_sort(right)\n",
"        i = j = k = 0\n",
"        while i < len(left) and j < len(right):\n",
"            if left[i] < right[j]:\n",
"                nums[k] = left[i]\n",
"                i+=1\n",
"            else:\n",
"                nums[k] = right[j]\n",
"                j+=1\n",
"                k+=1\n",
"        while i < len(left):\n",
"            nums[k] = left[i]\n",
"            i+=1\n",
"            k+=1\n",
"        while j < len(right):\n",
"            nums[k] = right[j]\n",
"            j+=1\n",
"            k+=1\n",
"    return nums\n",
"\n",
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    делает ее эффективной для больших массивов данных. Однако с точки зрения
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      "def quicksort_main(a, s, e): # дополнительная функция, чтобы декоратор не вызывался при каждой рекурсии\n",
      "    return quicksort(a, s, e)\n",
      "\n",
      "def quicksort(alist, start, end):\n",
      "    if end - start > 1:\n",

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        "        p = partition(alist, start, end) # Выбор опорного
элемента\n",
        "        quicksort(alist, start, p) # рекурсивное повторение
сортировки для половины меньше опорного элемента и больше\n",
        "        quicksort(alist, p + 1, end)\n",
        "        return alist\n",
        "\n",
        "\n",
        "def partition(alist, start, end):\n",
        "    pivot = alist[start]\n",
        "    i = start + 1\n",
        "    j = end - 1\n",
        "\n",
        "    while True:\n",
        "        while (i <= j and alist[i] <= pivot):\n",
        "            i = i + 1\n",
        "        while (i <= j and alist[j] >= pivot):\n",
        "            j = j - 1\n",
        "\n",
        "        if i <= j:\n",
        "            alist[i], alist[j] = alist[j], alist[i]\n",
        "        else:\n",
        "            alist[start], alist[j] = alist[j], alist[start]\n",
        "            return j\n",
        "\n",
        "k1 = lst1 + [250 for i in range(1000)]\n",
        "k2 = lst1 + [1 for i in range(100)]\n",
        "print(quicksort_main(lst, 0, len(lst)))\n",
        "print(quicksort_main(lst1, 0, len(lst1)))\n",
        "print(quicksort_main(lst2, 0, len(lst2)))\n",
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        "minrun = 32\n",
        "\n",
        "# Часть сортировки вставками\n",
        "def InsSort(arr,start,end):\n",
        "    for i in range(start+1,end+1):\n",
        "        elem = arr[i]\n",

```

```

"        j = i-1\n",
"        while j>=start and elem<arr[j]:\n",
"            arr[j+1] = arr[j]\n",
"            j -= 1\n",
"            arr[j+1] = elem\n",
"        return arr\n",
"\n",
"\n",
"# Часть сортировки слиянием\n",
"def merge(arr,start,mid,end):\n",
"    if mid==end:\n",
"        return arr\n",
"    first = arr[start:mid+1]\n",
"    last = arr[mid+1:end+1]\n",
"    len1 = mid-start+1\n",
"    len2 = end-mid\n",
"    ind1 = 0\n",
"    ind2 = 0\n",
"    ind = start\n",
"\n",
"    while ind1<len1 and ind2<len2:\n",
"        if first[ind1]<last[ind2]:\n",
"            arr[ind] = first[ind1]\n",
"            ind1 += 1\n",
"        else:\n",
"            arr[ind] = last[ind2]\n",
"            ind2 += 1\n",
"        ind += 1\n",
"\n",
"    while ind1<len1:\n",
"        arr[ind] = first[ind1]\n",
"        ind1 += 1\n",
"        ind += 1\n",
"\n",
"    while ind2<len2:\n",
"        arr[ind] = last[ind2]\n",
"        ind2 += 1\n",
"        ind += 1\n",
"\n",
"    return arr\n",
"\n",
"\n",
"@time_of_function\n",
"def tim_sort(arr):\n",
"    n = len(arr)\n",
"    # Разделение на подмассивы\n",
"\n",
"    for start in range(0,n,minrun):\n",
"        end = min(start+minrun-1,n-1)\n",
"        arr = InsSort(arr,start,end)\n",
"\n",
"    curr_size = minrun\n",
"    while curr_size<n:\n",
"        for start in range(0,n,curr_size*2):\n",
"            mid = min(n-1,start+curr_size-1)\n",
"            end = min(n-1,mid+curr_size)\n",
"            arr = merge(arr,start,mid,end)\n",
"            curr_size *= 2\n",
"    return arr\n",
"\n",
"print(tim_sort(lst))\n",

```



```

    "print(tim_sort(lst1))\n",
    "print(tim_sort(lst2))\n",
    "print(tim_sort([choice(string.ascii_lowercase) for i in
range(1000)]))\n",
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    "В худшем случае, если входные данные случайные, Timsort  

справится за O(n log n).",
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    "производительностью. Исследовать, как различные типы входных
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самый большой элемент является вершиной дерева. Затем помещаем этот
элемент в конец списка. После перестраиваем Мах Heap и снова помещаем
новый наибольший элемент уже перед последним элементом в списке.\n",
    "\n",
    "Этот процесс построения кучи повторяется, пока все вершины
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    "def heapify(arr, n, i):\n",
    "    largest = i\n",
    "    l = 2 * i + 1\n",
    "    r = 2 * i + 2\n",
    "\n",
    "    if l < n and arr[i] < arr[l]:\n",
    "        largest = l\n",
    "\n",
    "    if r < n and arr[largest] < arr[r]:\n",
    "        largest = r\n",
    "\n",
    "    if largest != i:\n",
    "        (arr[i], arr[largest]) = (arr[largest], arr[i])\n",
    "        heapify(arr, n, largest)\n",
    "\n",

```

```

"@time_of_function\n",
"def heapSort(arr):\n",
"    n = len(arr)\n",
"\n",
"    for i in range(n // 2 - 1, -1, -1):\n",
"        heapify(arr, n, i)\n",
"\n",
"    for i in range(n - 1, 0, -1):\n",
"        arr[i], arr[0] = arr[0], arr[i]\n",
"        heapify(arr, i, 0)\n",
"    return arr\n",
"\n",
"print(heapSort(lst))\n",
"print(heapSort(lst1))\n",
"print(heapSort(lst2))\n",
"print(heapSort([choice(string.ascii_lowercase) for i in
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[illegible]


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    "ее работу на целых\n",
    "числах с ограниченным диапазоном значений. Сравнить\n",
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    "значений.\n",
    "\n",
    "Этот алгоритм основан на подсчёте количества вхождений каждого\n",
    "элемента в массив и его последующей упорядочивании.\n",
    "Подсчитываем, сколько раз в массиве встречается каждое значение,\n",
    "и заполняем массив подсчитанными элементами в соответствующих\n",
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    "def counting_sort(alist, largest):\n",
    "    c = [0] * (largest + 1) # Изначально все равно нулю\n",

```

```

        for i in range(len(alist)):
            c[alist[i]] = c[alist[i]] + 1
        c[0] = c[0] - 1
        for i in range(1, largest + 1):
            c[i] = c[i] + c[i - 1]
        result = [None] * len(alist)
        for x in reversed(alist):
            result[c[x]] = x
            c[x] = c[x] - 1
        return result

k1 = [randint(1, 100) for i in range(10000)]
print(counting_sort(lst, max(lst)))
print(counting_sort(lst1, max(lst1)))
print(counting_sort(lst2, max(lst2)))
print(counting_sort(k1, max(k1)))
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    "    buckets = [[] for i in range(length)]\n",
    "\n",
    "    # Инициализация элементов в блоки\n",
    "    for i in range(length):\n",
    "        index = int(array[i] / size)\n",
    "        if index != length:\n",
    "            buckets[index].append(array[i])\n",
    "        else:\n",
    "            buckets[length - 1].append(array[i])\n",
    "\n",
    "    # Сортировка внутри каждого блока\n",
    "    for i in range(len(array)):\n",
    "        buckets[i] = sorted(buckets[i])\n",
    "\n",
    "    # Сборка итогового списка\n",
    "    result = []\n",
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            "\n",
            "    output = [0] * (n)\n",
            "\n",
            "    count = [0] * (10)\n",

```

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"\n",
"    for i in range(0, n):\n",
"        index = (arr[i] / exp1)\n",
"        count[int((index) % 10)] += 1\n",
"\n",
"    for i in range(1, 10):\n",
"        count[i] += count[i - 1]\n",
"\n",
"    i = n-1\n",
"    while i>=0:\n",
"        index = (arr[i] / exp1)\n",
"        output[count[int((index) % 10) ] - 1] = arr[i]\n",
"        count[int((index) % 10)] -= 1\n",
"        i -= 1\n",
"\n",
"    i = 0\n",
"    for i in range(0, len(arr)):\n",
"        arr[i] = output[i]\n",
"\n",
"@time_of_function\n",
"def radixSort(arr):\n",
"\n",
"    max1 = max(arr)\n",
"\n",
"    exp = 1\n",
"    while max1 // exp > 0:\n",
"        countingSort(arr, exp)\n",
"        exp *= 10\n",
"\n",
"    return arr\n",
"\n",
"def countingSort8(arr, exp1):\n",
"\n",
"    n = len(arr)\n",
"\n",
"    output = [0] * (n)\n",
"\n",
"    count = [0] * (8)\n",
"\n",
"    for i in range(0, n):\n",
"        index = (arr[i] / exp1)\n",
"        count[int((index) % 8)] += 1\n",
"\n",
"    for i in range(1, 8):\n",
"        count[i] += count[i - 1]\n",
"\n",
"    i = n - 1\n",
"    while i >= 0:\n",
"        index = (arr[i] / exp1)\n",
"        output[count[int((index) % 8) ] - 1] = arr[i]\n",
"        count[int((index) % 8)] -= 1\n",
"        i -= 1\n",
"\n",
"    i = 0\n",
"    for i in range(0, len(arr)):\n",
"        arr[i] = output[i]\n",
"\n",
"@time_of_function\n",
"def radixSort8(arr):\n",
"\n",
"    max1 = max(arr)\n",

```



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"\n",
"    exp = 1\n",
"    while max1 // exp > 0:\n",
"        countingSort(arr, exp)\n",
"        exp *= 8\n",
"\n",
"    return arr\n",
"\n",
"print(radixSort(lst))\n",
"print(radixSort(lst1))\n",
"print(radixSort(lst2))\n",
"lst = rnd_lst(100)\n",
"lst1 = rnd_lst(1000)\n",
"lst2 = rnd_lst(10000)\n",
"print(radixSort8(lst))\n",
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