一、数组 Array

· 带咒马法: Java, C++: int accord, 可泛型

Python: List = []

Toua Script: let x=[1.2.3]

·硬件字机:内在管理器 (Memory Controller)

申济数组 → 开辟连续的地址,每个地址可直接通过内容管理署访问。 、访问 哪个六秦 时间复杂度一样: 0(1) 从

但. 增册 / Q O(h)

• 植入:

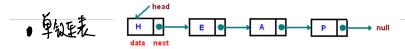
365

ANIFE 地侧的那个元素设置为重、唤起Jan 这地里收乱制即可。

```
Array List:
       * Appends the supplied element to the end of this list.
       * The element, e, can be an object of any type or null.
332:
       * @param e the element to be appended to this list
       * @return true, the add will always succeed
334:
335:
                                  10到数组为后
      public boolean add(E e)
336:
337:
338:
        modCount++;
339:
        if (size == data.length)
          ensureCapacity(size + 1); -7 (2) 16 Size
340:
341:
        data[size++] = e;
342:
        return true;
343:
344 .
345:
346:
       st Adds the supplied element at the specified index, shifting all
347:
       * elements currently at that index or higher one to the right.
348:
       * The element, e, can be an object of any type or null.
349:
350:
       * @param index the index at which the element is being added
       * @param e the item being added
352:
       * @throws IndexOutOfBoundsException if index < 0 || index &gt; size()
353:
354:
      public void add(int index, E e)
355:
        checkBoundInclusive(index); → 大道 上下
356:
        modCount++;
357:
                                  っ 标凡 操作収数
        if (size == data.length)
358:
          ensureCapacity(size + 1);
359:
          f (index != size) System.arraycopy(data, index, data, index + 1, size - index);
                                                          易相和的粉
360:
        if (index != size)
361:
362:
        data[index] = e;
                                                             榳
                            原物组与加速设置
363:
        size++;
364:
```

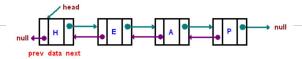
```
TOA!
160:
      * Guarantees that this list will have at least enough capacity to
       * hold minCapacity elements. This implementation will grow the list to
163:
       * max(current * 2, minCapacity) if (minCapacity > current). The JCL says
       \ast explictly that "this method increases its capacity to minCap", while
164:
165:
       st the JDK 1.3 online docs specify that the list will grow to at least the
166:
       * size specified.
167:
168:
       * @param minCapacity the minimum guaranteed capacity
169:
      public void ensureCapacity(int minCapacity) 有品版版的
170:
171:
172:
        int current = data.length;
173:
174:
        if (minCapacity > current)
                                     直接new-1、长度x2 , 暴力美侈
175:
            E[] newData = (E[]) new Object[Math.max(current * 2, minCapacity)];
176:
            System.arraycopy(data, 0, newData, 0, size);
177:
                                                        表数组建多的对
178:
            data = newData;
179:
180:
      }
191 :
```

= Linked List



节点、dans : Node, Value也可为落

,又没自链表



Node 的简单

杂讯:

• 派码

教美

```
90:
99:
       /**
100:
       * Class to represent an entry in the list. Holds a single element.
101:
       private static final class Entry<T>
102:
                                                   226
103:
104:
         /** The element in the list. */
105:
        T data;
106:
         /** The next list entry, null if this is last. */
107:
108:
        Entry<T> next;
109:
         /** The previous list entry, null if this is first. */
110:
111:
         Entry<T> previous;
113:
         /**
114:
         * Construct an entry.
115:
         * @param data the list element
116:
117:
         Entry(T data)
118:
119:
          this.data = data;
120:
      } // class Entry
```

成员建

```
79:
      /**
      * Compatible with JDK 1.2.
80:
81:
82:
      private static final long serialVersionUID = 876323262645176354L;
83:
84:
85:
      * The first element in the list.
86:
      transient Entry<T> first;
87:
88:
89:
      /**
      * The last element in the list.
90:
91:
92:
      transient Entry<T> last;
93:
94:
      * The current length of the list.
95:
96:
97:
      transient int size = 0;
98:
```

• 附羽经东

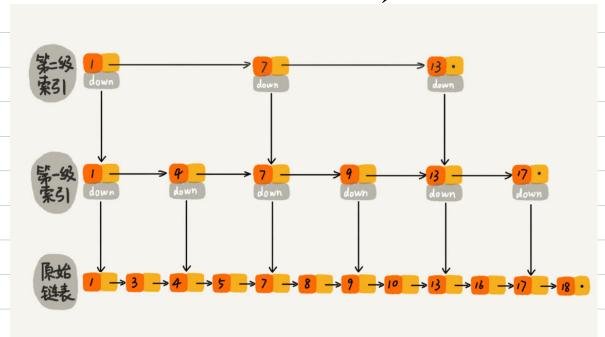
E. Bilte ship list

- 1. 特点:①1910年至有66年,比书约村(AUL)晚,《浙AVL和二分基拨。
 - @ 具用于六素有序
 - @ +60/400/ 1 0 (log n)
 - @ 原理的美 易文肌 方便抄展,教育高

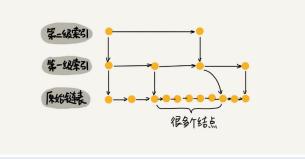
也 Redrs. Level DB 各中国来代为 AVL Tree.

2.杂观:

(指键表的OCM 根理: 4炬,空间段时间)



3. 现象使用时,



维护城事

大 鱼顶发丹东 DIN)
四、工程中应用
eq. LAU Cache -> Linked list (Blate to) Totoleb
ey, LPU Cache -> Linked list (\$1 15 to let) 1550 list Redis -> Skip list