Команда 1

20 октября 2020 г.

1 Task №1

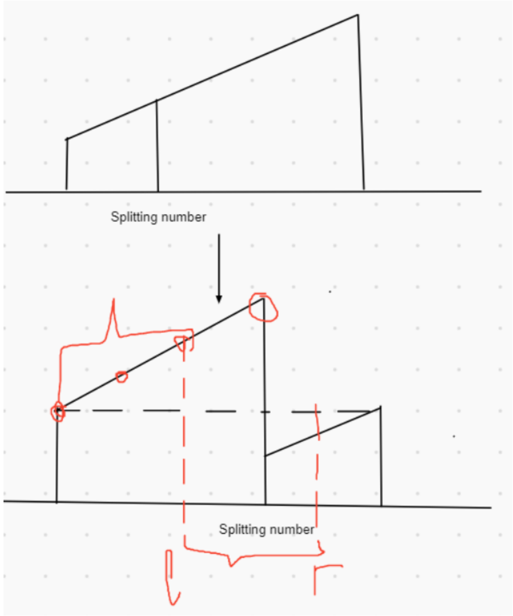

Рис. 1: General view of array rotation

Algorithm 1 Search(a[...] - array, p - searched element)

```
Fixing the first, last element
Take the middle element $\lfloor n/2 \rfloor$
if $a[mid] > a[last] \&\& p < a[first] \&\& p < a[last]$ then
    Search(a[mid + 1:last], p)
else if $a[mid] == p$ then
    return mid
else
    Search(a[first:mid-1], p)
end if
return -1
```

2 Task №2

Algorithm 2 Binary search tree to linked list Reconstruct(Node n)

```
Run from root node $node$
answer = [] is empty linked list
if node.left is not Null then
    answer =
    Reconstruct(node.left)
end if
answer.pushBack(node.value)
if node.right is not Null then
    answer.append(Reconstruct(node.right))
end if
return answer
```