B Pnary search Algorithm

- Binary search can only he applied if the given array is sorted.
 - 11 it tokes two Points
 - (5): in the first element of the array
 - (e): in the last element of the array
 - 2 Colculate the mid: mid = 3+e
 - if the Wey == arr[mrd], return mid if the Wey < arr[mid], e=mid-1if the Wey > arr[mid], s=mid+1

7 5 =

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$$Wey = 5$$
 $mid = \frac{8+e}{2} = \frac{0+6}{2} = 3$

arr[mid] > Wey → e= mid - 1

(13)

$$mid = \frac{o+2}{2} = 1$$

so the key (5) is out POS (1)