

BinarySearch(A, x)

$\text{low} \leftarrow 0$

$\text{high} \leftarrow \text{length}(\text{A}) - 1$

$\text{low} \leq \text{high} ?$

true

$i \leftarrow \text{floor}(\text{low} + \text{high} / 2)$

false

False

$\text{A}[i] = x ?$

true

True

false

$\text{A}[i] > x ?$

true

$\text{high} \leftarrow i - 1$

false

$\text{low} \leftarrow i + 1$

