**function** BinarySearch(*sorted\_list, num*)

*begin\_index* 🡨 0

*end\_index* 🡨 LENGTH[*sorted\_list*]

**while** *begin\_index* *end\_index* **do**

*mid\_idx* = FLOOR(*begin\_index* + *end\_index*) / 2

**if** *sorted\_list*[*mid\_idx*] = *num* **then**

**return** *mid\_idx*

**else if** *num* < *sorted\_list*[*mid\_idx*] **then**

*end\_index* 🡨 *mid\_inx* – 1

**else**

*begin\_index* 🡨 *mid\_idx* + 1

**end if**

**end while**

**return** None