## **Algorithm:** BinarySearch 1 Procedure BinarySearch(A, x) $1 ow \leftarrow 0$ $high \leftarrow |A| - 1$ while $low \le high do$ $i \leftarrow |low + high_{\overline{2}}|$ end if A[i] = x then return true else if A[i] > x then $high \leftarrow i-1$ else 10 $low \leftarrow i+1$ 11