```
Input: Sorted array, size of array and element to search for Output: Index of element in array if found, or -1 procedure Binary_Search(A, n, el)

L \leftarrow 0
R \leftarrow n-1
while L \leq R do
m \leftarrow \lfloor (L+R)/2 \rfloor
if A[m] = el then return m
else if A[m] < el then
l \leftarrow m+1
else
r \leftarrow m-1
return -1
```

```
Input: Function, left and right bounds of function, precision criterion
Output: x value of function's maximum (can be adapted to minimum)

> Note: Used for unimodal functions.

procedure Ternary_Search(f, left, right, precision)

if |right - left| < precision then

return (left + right)/2

left_third ← (2 * left + right)/3

right_third ← (left + 2 * right)/3

if f(left_third) < f(right_third) then

return Ternary_Search(f, left_third, right, precision)
else

return Ternary_Searcch(f, left, right_third, precision)</pre>
```