

Pseudo-Code (Lab Act 2)

1. Declare a variable `max_element = -1`
2. Declare a variable `i = 0`
3. While `i < n`
 4. If `array[i] > max_element`
 5. set `max_element = array[i]`
 6. `i = i + 1`
7. Return `max_element`

cost	time
c_1	1
c_2	1
c_3	n
c_4	n
c_5	n
c_6	0

$$T(n) = C_1 + C_2 + (3nC_{345})$$

$$\text{Big-O} = O(n)$$