Flowchart 1 (Busca Linear)

incio → i = 1 (1t) → i <= n (1tn) → return -1 (1t)

a[i] == x (2tn) → v: return i (1t) / f: i = i + 1 (2tn -1)

Flowchart 2 (Busca Linear Ordenada)

incio → i = 1 (1t) → i <= n / x >= a[i] (3tn) → return -1 (1t)

a[i] == x (2tn) → v: return i (1t) / f: i = i + 1 (2tn - 1)

Flowchart 3 (Busca Binaria)

inicio → esq = 1 (1t) → dir = n (1t) → esq <= dir (1tn) → return -1 (1t)

meio = [(dir+ esq)/2] (3tn)

a[meio] == x (2tn) → v: return meio (1t)

x > a[meio] (2tn - 1) → v: esq = meio + 1 (2tn - 1) / f: dir = meio - 1 (2tn - 1)

Table

	Busca Linear	Busca Linear Ordenada	Busca Binaria
X e A	2t+3tpx+(2tpx-1)	2t+5tpx+(2tpx-1)	3t+4tpx+(6tpx-3) log2(n)
X = A[1]	5t	7t	3t+4tpx+(6tpx-3) log2(n)
X = A [n]	2t+3tpx+(2tpx-1)	2t+5tpx+(2tpx-1)	3t+4tpx+(6tpx-3) log2(n)
X e/ A	2t+(3tn+1t)+(2tn-1t)	2t+5tpx+(2tpx-1)	3t+4tpx+(6tpx-3) log2(n)