```
BinarySearch(A[0..N-1], X) {
    low = 0
    high = N -1
    while (low <= high) {
        mid = (low + high) / 2
        if (A[mid] >X)
            high = mid -1
        else if (A[mid] <X)
            low = mid + 1
        else
            return mid // found
    }
    return -1 // not found
}
```

Unn Fig. 6-8.

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