

```
BINARY-SEARCH(A, e, begin, end)
  if begin == end then
    if A[begin] != e then
      return False
    else return False
  middle = (begin + end) / 2
  if A[middle] > e then
    return BINARY-SEARCH(A, e, begin, middle)
  if A[middle] < e then
    return BINARY-SEARCH(A, e, middle, end)
```