

Chương 1.

Binary Search

```
Input = [4, 10, 16, 24, 32, 46, 76, 112, 144, 182]

Begin := 0
End   := len(Input) - 1 # 10 - 1 = 9
Key   := 46

# Iteration 1
mid := 4
Input[mid] = 32
Input[mid] < Key:
    Begin = mid + 1 # 5

# Iteration 2
mid := 7
Input[mid] = 112
Input[mid] > Key:
    End = mid - 1 # 6

# Iteration 3
mid := 5
Input[mid] = 46
Input[mid] = Key:
    Found

Result := 5
```