BINARY SEARCH ALGORITHM

1. Declare a SORTED Array A with default values
2. Input x, the value to be search
3. Set n = length of Array
4. Set low = 0
5. Set high = n – 1
6. While (low ≤ high)
    a. Set mid = integer value of (low + high)/2
    b. If x = A[mid], go to step 11
    c. If x > mid, **low = mid + 1**, Else, **high = mid – 1**
7. If low > high, print “Not Found”
8. Print “Found at index ”, mid
9. Exit