Binary Search

Prof. Hector Garcia-Molina

 We are given an array A of <u>sorted</u> integers Example:



- N is number of elements (N > 0)
- A[1] is first element, A[N] is last
- Variables A, N are global
- There are no duplicates in array
- Your task: code following function
 Procedure FIND(V): returns INDEX
 - V is integer we are looking for
 - If V is in <u>not</u> in array, INDEX is set to -1
 - If V is in array, INDEX is location of V
 - Example:FIND(13) returns INDEX=4FIND(14) returns INDEX= -1
- Use <u>binary search</u> for your procedure