Exercise 3

Magic Index  
  Given a sorted array of distinct integers, find the Magic index or fixed point in the array.  
  Magic Index or Fixed Point: Magic index or a Fixed point in an array is an index i in the array such that A[i] = i.  
  
Example :  
  
int[] A = { -1, 0, 1, 2, 4, 10 };  
  
Magic index or fixed point is : 4

Note: additional pogi points for those who can implement a binary search algorithm.