Find the number of zeroes

```
#include <stdio.h>
#include <stdlib.h>

int getFirstZero(int *arr, int start, int end)
{
        if( end >= start )
        {
                int middle = start + (end - start) / 2;
                if (( middle == 0 || arr[middle - 1] == 1) && arr[middle] == 0)
        return middle;

      return (arr[middle] == 1) ? getFirstZero(arr, (middle + 1), end):
      getFirstZero(arr, start, (middle - 1));
        }
        return -1;
}

int countNumberOfZeroes(int *arr, int size)
{
        int first = getFirstZero(arr, 0, size-1);
        return first == -1 ? 0: size - first;
}

int main()
{
        int *arr, size;
        printf("Enter size of an array\n");
        scanf("%d", &size);
        //allocate memory for array
        arr = (int *)malloc(size * sizeof(int));

        printf("Enter Array elements ");
        for(int index = 0; index < size; index++)
                scanf("%d", &arr[index]);

        printf("The number of zeroes present is = %d",
                countNumberOfZeroes(arr, size));
        return 0;
}
```

Time complexity: O(logn)
Space Complexity: O(logn)