```c
void swap(int* a, int* b)
{
    int tmp;

    tmp = *a;
    *a = *b;
    *b = tmp;
}

int firstMissingPositive(int* nums, int numsSize)
{
    int min_positive;
    int min_positive_pos;
    int index;


    min_positive = INT_MAX;

    for(index = 0; index < numsSize; index++)
    {
        while(nums[index] > 0 && nums[index] <= numsSize && nums[nums[index] - 1] != nums[index])
        {
            swap(&nums[index], &nums[nums[index] - 1]);
        }
    }

    for(index = 0; index < numsSize; index++)
    {
        if( (index+1) != nums[index] )
        {
            break;
        }
    }

    return (index+1);

}
```