

Given an array of positive integers. All numbers occur even number of times except one number which occurs odd number of times.

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

```
int getOddOccurrenceNumber(int arr[], int size)
{
    int index, result = 0;
    for(index = 0; index < size; index++)
        result = result ^ arr[index];
    return result;
}
```

```
int main()
{
    int *arr, size;
    printf("Enter size of the array\n");
    scanf("%d", &size);
    printf("Enter elements in array\n");
    for(int index = 0; index < size; index++)
        scanf("%d", &arr[index]);
    int result = getOddOccurrenceNumber(arr, size);
    result ? printf("The odd occurrence number is = %d", result): printf("Not found");
    return 0;
}
```

Time complexity: $O(n)$

Space complexity: $O(1)$