Архитектура вычислительных систем. Домашнее задание 3. Отчёт

Фролов-Буканов Виктор Дмитриевич БПИ-228 Сентябрь 2023

```
Enter the number of elements of the array: 5
1
2
3
4
5
Total sum is 15
The number of odd numbers is 3
The number of even numbers is 2
                     Figure 1: 1 скрин
Enter the number of elements of the array: 5
1
-1
1
-1
Total sum is 0
The number of odd numbers is 4
The number of even numbers is 1
                     Figure 2: 2 скрин
Enter the number of elements of the array: 3
2147483647
-2147483648
50
Total sum is 49
The number of odd numbers is 1
The number of even numbers is 2
```

Figure 3: 3 скрин

```
Enter the number of elements of the array: 3
2147483647
-2147483648
2147483647
Total sum is 2147483646
The number of odd numbers is 2
The number of even numbers is 1
```

Figure 4: 4 скрин

```
Enter the number of elements of the array: 4
2147483647
-2147483648
2147483647
2147483647
You overflowed, but the last correct value of sum is 2147483646. It is an aggregation of first 3 numbers
The number of odd numbers is 3
The number of even numbers is 1
```

Figure 5: 5 скрин

```
Enter the number of elements of the array: 4
2147483644
2
2
2
2
You overflowed, but the last correct value of sum is 2147483646. It is an aggregation of first 2 numbers
The number of odd numbers is 0
The number of even numbers is 4
```

Figure 6: 6 скрин

```
Enter the number of elements of the array: 4
-2147483646
-2
-2
-5
You overflowed, but the last correct value of sum is -2147483648. It is an aggregation of first 2 numbers
The number of odd numbers is 1
The number of even numbers is 3
```

Figure 7: 7 скрин

```
Enter the number of elements of the array: 4
-2147483648
2147483647
-2147483648
-2147483648
You overflowed, but the last correct value of sum is -1. It is an aggregation of first 2 numbers The number of odd numbers is 1
The number of even numbers is 3
```

Figure 8: 8 скрин

Enter the number of elements of the array: 11
You entered incorrect number of elements

Figure 9: 9 скрин

Enter the number of elements of the array: 0 You entered incorrect number of elements

Figure 10: 10 скрин

Enter the number of elements of the array: 1 51726
Total sum is 51726
The number of odd numbers is 0
The number of even numbers is 1

Figure 11: 11 скрин

Все эти 11 скриншотов демонстрируют корректный результат работы на всевозможных вводимых данных. Программа отслеживает корректный ввод числа элементов в массиве (скриншоты 9 из 10), а также отслеживает переполнение как в положительную, так и в отрицательную сторону. Программа корректно считает сумму валидных элементов в массиве и количество чётных и нечётных элементов во всём введённом массиве (даже если где-то произошло переполнение)