

Odd and Even

Jojo loves to separate a group of integer to odd group and even group. Bibi, his friend knows his hobby and decided to give N integers to Jojo. Jojo who already separated the integers to groups is desperate because he does not know if all the integers are in the correct group. After knowing Jojo's problem, help him by making a program that gives him the correct number of integers in the odd group and the even group.

Format Input

The first line of input consist of integer T which indicates the number of the test cases. T lines of input will consist of an integer N which is the number of integers, followed by N integers A_i which are the integers Jojo want to group.

Format Output

Output the correct odd group and even group. Print a newline character after each testcases.

Constraints

- $1 \le T \le 100$
- $1 \le N \le 1,000$
- $1 \le A_i \le 1,000$

Sample Input (standard input)

```
2
10
1 2 3 4 5 6 7 8 9 10
6
1 3 5 7 9 11
```

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Sample Output (standard output)

Odd group: 5 integer(s). Even group: 5 integer(s).

Odd group : 6 integer(s). Even group : 0 integer(s).



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Jojo sangat senang untuk mengelompokkan angka ke dalam grup ganjil dan grup genap. Bibi, teman dari Jojo mengetahui hobi Jojo dan berencana untuk memberikan Jojo N angka. Jojo akhirnya selesai mengelompokkan dan dia tidak tahu apakah kelompok yang ia buat benar atau tidak. Bantulah Jojo dengan membuat program yang memberikan jumlah angka yang terdapat pada grup ganjil dan grup genap.

Format Input

Baris pertama input merupakan bilangan bulat T dimana T adalah jumlah kasus. T baris berikutnya merupakan bilangan bulat N yang diikuti dengan N bilangan bulat positif A_i dimana A_i merupakan bilangan bulat yang ingin Jojo kelompokan.

Format Output

Output merupakan jumlah angka yang terdapat pada grup ganjil dan genap.

Constraints

- $1 \le T \le 100$
- $1 \le N \le 1,000$
- $1 < A_i < 1,000$

Sample Input (standard input)

```
2
10
1 2 3 4 5 6 7 8 9 10
6
1 3 5 7 9 11
```

Sample Output (standard output)

```
Odd group : 5 integer(s).

Even group : 5 integer(s).

Odd group : 6 integer(s).

Even group : 0 integer(s).
```

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