CS209 Practice4

Question 1

1.	Given an integer array,	please do	following	tasks:
(1)	output all even numbers	s in the ar	ray.	

Sample Input:	
5	
5 6 7 8 11	
Sample Output:	
6 8	

(2) Output all odd numbers in the array.

```
Sample Input:
5
5 6 7 8 11
Sample Output:
5 7 11
```

(3) Output all prime numbers in the array.

```
Sample Input:
5
5 6 7 8 11
Sample Output:
5 7 11
```

(4) Output all prime numbers and bigger than 5 in the array.

```
Sample Input:
5
5 6 7 8 11
Sample Output:
7 11
```

You should try to use Predicate<T> interface.

Question 2

Give a sequence of integer numbers, output their quadratic sum.

```
Sample Input:
3
1 2 3
Sample Output:
14
```

You should try to use UnaryOperator<T>, Function<T, R> or BinaryOperator<T>.

Evaluation Criteria:

The practice will be checked on this to the next next lab class(Mar.30) by teachers or SAs. What will be tested:

- 1. That you understand every line of your own code, not just copy from somewhere
- 2. That your program compiles correctly (javac)
- 3. Correctness of the program logic
- 4. That the result is obtained in a reasonable time

This practice will contribute 1 mark to your overall grade. Late submissions within 2 weeks after the deadline (Mar.30) will incur a 20% penalty, meaning that you can only get 80% of the score.