Project Euler #10: Summation of primes

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Problem Submissions Leaderboard Discussions

This problem is a programming version of Problem 10 from projecteuler.net

The sum of the primes below 10 is $2 + 3 + 5 + 7 = 17$.

Find the sum of all the primes not greater than given N.

Input Format

The first line contains an integer T i.e. number of the test cases.
The next T lines will contains an integer N.

Constraints

- $1 \leqslant T \leqslant 10^4$
- $1 \leqslant N \leqslant 10^6$

Output Format

Print the value corresponding to each test case in separate line.

Sample Input 0

```
2
5
10
```

Sample Output 0

```
10
17
```

Explanation 0

- For $N = 5$, we have primes as $\{2, 3, 5\}$ and the sum is 10.
- For $N = 10$, we have primes as $\{2, 3, 5, 7\}$ and the sum is 17.

Submissions: 10983
Max Score: 100
Difficulty: Medium

Rate This Challenge:

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Current Buffer (saved locally, editable) Java 8

```
1  import java.io.*;
2  import java.util.*;
3  import java.text.*;
4  import java.math.*;
5  import java.util.regex.*;
6
7  public class Solution {
8
9      public static void main(String[] args) {
10         Scanner in = new Scanner(System.in);
```