**Q:-1**

**LCM SUM**

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Given n, calculate and print the sum :

LCM(1,n) + LCM(2,n) + .. + LCM(n,n)

where LCM(i,n) denotes the Least Common Multiple of the integers i and n.

**Input Format :**

Line 1 : Integer n

**Output Format :**

Required sum

**Constraints :**

***1 <= T <= 300000***

***1 <= n <= 1000000***

**Sample Input 1 :**

5

**Sample Output 1 :**

55

**Sample Input 2 :**

2

**Sample Output 2 :**

4

**Q:-2**

**Segmented Sieve Problem**

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In this problem you have to print all primes from given interval.

**Input**

t - the number of test cases, then t lines follows. [t <= 150]

On each line are written two integers L and U separated by a blank. L - lower bound of

interval, U - upper bound of interval. [2 <= L < U <= 2147483647] [U-L <= 1000000].

**Output**

For each test case output must contain all primes from interval [L; U] in increasing order.

**Sample Input:**

2

2 10

3 7

**Sample Output:**

2

3

5

7

3

5

7