Time Limit: 3 sec / Memory Limit: 1024 MB

**Problem Statement**

For a positive integer X, let f(X) be the number of positive divisors of X.

Given a positive integer N, find ∑NK=1 K×f(K)

**Constraints**

* 1≤N≤107

**Input**

Input is given from Standard Input in the following format:

N

**Output**

Print the value  ∑NK=1 K×f(K)

**Sample Input 1**

4

**Sample Output 1**

23

We have  f(1)=1, f(2)=2,  f(3)=2, and  f(4)=3, so the answer is 1×1+2×2+3×2+4×3=23