

VMSS Pre-Pre-Windsor P1 - Mr. White's Carnival

Time limit: 2.0s **Memory limit:** 64M

Navidur went to the carnival and played the stereotypical hit something with a big hammer as hard as you can. When he hit the platform, the puck flew up exactly N meters. Now, the carnival is actually hosted by Mr. White, so the scoring is a little strange this time around. Navidur's score is the sum of all the positive factors of N . What's his score?

Input Specification

The input will be a single integer N ($1 \leq N \leq 10^6$).

Output Specification

Output the sum of the positive factors of N .

Sample Input

27

Sample Output

40