ShaKer 2020 Coding Battle

A. "Discounted tickets"

Statement

Today is the day of the great Dordogne Summer Festival ! Artists and performers from everywhere gather during the event, and people in Europe always compete to get their tickets, which is usually quite troublesome...

Indeed, the ticket office has already made itself a name because of its terrible management during the previous editions of the festival. That's why this year, the organisers decided to entrust the management of the ticket office to somebody trustworthy, **you** !

These people are happy because they managed to get their tickets

The ticket sales take place in a somewhat unusual way each year, contributing to the overall hype around the event : the ticket prices change according to the number of tickets that have already been sold. If a ticket is among the first 100 to be sold, then there is a big discount on its price ; the next 100 tickets (between the 101st and the 200th ticket sold) are slightly discounted, and the rest is not discounted.

Your goal is to compute the income generated by the ticket sale, knowing the number of tickets sold. Your are given the **number of tickets sold** N, the **price of the first 100 tickets** P_1, the **price of the following 100 tickets** P_2 and the **base price** of the tickets P_3.

Input

- On the first line, an integer N corresponding to the **number of tickets sold** $(0 \leq N \leq 10^4)$;
- On the second line, an integer P_1 corresponding to the **price of the first 100 tickets to be sold** $(1 \leq P_1 \leq 10^4)$;
- On the third line, an integer P_2 corresponding to the **price of the following 100 tickets to be sold** $(P_1 \leq P_2 \leq 10^4)$;
- On the fourth line, an integer P_3 corresponding to the **price of the remaining tickets** $(P_2 \leq P_3 \leq 10^4)$.

Output

Print on one line an integer corresponding to the **sum of all the prices of the tickets that were sold**.

Examples

Example 1

Input	Output
115 3 10 15	450

In this first example, we sold 115 tickets. The first 100 cost 3€, for a total value of 300€. The following 15 were sold at a price of 10€ per ticket for a total of 150€, thus we got 450€ for all the tickets sold.

Example 2

Input	Output
221 7 20 30	3330

Here, we sold 221 tickets. The first 100 cost 7€ each, the next 100 cost 20€ each and the last ones 30€. The sum of the prices of the tickets sold is thus 3330€.