

Calculation

Given 3 integer values M, N and P solve the following equation:

If M is less than N solve $R = M*N + P$. On the contrary solve $R = (M+N) * P$.

Input

Three integer numbers M, N and P, in that order. $[-100 \leq M, N, P \leq 100]$

Output

R, the result of the equation.

Example

Input:

10 20 30

Output:

230