

EIUSAVING 2

Normally, interest rates for saving deposits depend on how long the deposits are (see the table below).

Number of months	Interest rates (each 12 months)
1	3.90%
2	3.92%
3	3.95%
4	3.99%
5	4.04%
6	5.54%
7	5.72%
8	5.92%
9	6.14%
10	6.38%
11	6.64%
12	6.92%

Each month. Minh deposits some money into a savings account. Interest will be added to account at the end of each period (not rounded)

Calculate the maximum amount of money Minh can receive after N months.

Input

The first line contains an integers N ($0 < M \leq 1000$)

The second line contains M integers which are the amount of money Minh deposits into his account in M months (respectively).

Output

The maximum amount of money (rounded to unit).

Sample

Input	Output
4 1000 2000 3000 1000	7056