SAC '22 Code Challenge 3 P1 - Hair Hazards

Time limit: 1.0s   **Memory limit:** 256M

When school finishes, Fayez decides to experiment with new hair lengths.

Currently, Fayez has a hair length of H cm.

Whenever he visits his barber in the summer, his hair will be cut S cm shorter.

He will visit his barber Q times and wants to know his hair length after each haircut.

Can you help him?

Input Specification

The first line will contain H ($100 \leq H \leq 100\,000$), the length of Fayez's hair initially.

The next will contain S ($1 \leq S \leq 1\,000$), the length of hair trimmed off from each haircut.

The next line will contain Q ($1 \leq Q \leq \lfloor \frac{H-1}{S} \rfloor$), the number of haircuts Fayez will get.

Output Specification

Output the length of Fayez's hair after each haircut in cm.

Sample Input

```
200
2
3
```

Sample Output

```
198
196
194
```