Fight the Monsters!

Jason is trapped in a forest with n hungry monsters and must use his trusty blaster to defend himself! Each monster i has a health value, h_i. Jason can discharge his blaster at a monster once per second and reduce its health points by hit units. Once a monster's health points become ≤ 0, it dies.

Given the health values for each monster and an integer, t, can you determine the maximum number of monsters he can kill in t seconds? Assume Jason always hits his target!

Input Format

The first line consists of three space-separated integers describing the respective values of n, hit, and t. The second line consists of n space-separated integers describing the values of $h_0, h_1, \ldots, h_{n-1}$.

Constraints

- $1 \leq n \leq 10^5$
- $1 \leq hit \leq 10^9$
- $1 \leq t \leq 10^9$
- $1 \leq h_i \leq 10^9$

Output Format

Print an integer denoting the maximum number of monsters Jason can kill in t seconds.

Sample Input 0

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7 8 6
16 19 7 11 23 8 16
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Sample Output 0

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4
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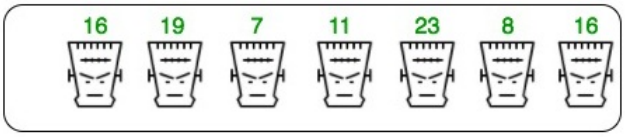
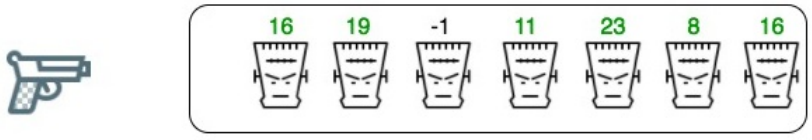
Explanation 0

We want to find the maximum number of monsters we can kill in $t = 6$ seconds using a blaster that does $hit = 8$ units of damage per second. The diagram below depicts the array of initial health values, $h = [16, 19, 7, 11, 23, 8, 16]$:

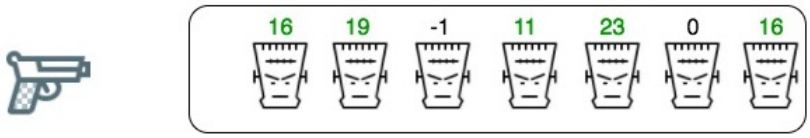


The optimal approach is as follows:

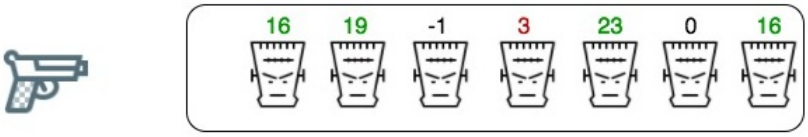
1. Shoot monster 2 so $h_2 = 7 - 8 = -1$, monster 2 dies, and h becomes $[16, 19, -1, 11, 23, 8, 16]$:



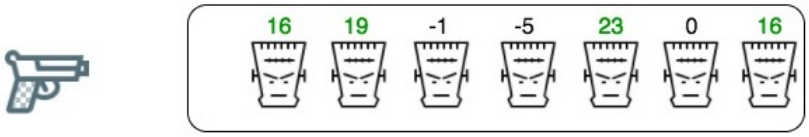
2. Shoot monster 5 so $h_5 = 8 - 8 = 0$, monster 5 dies, and h becomes $[16, 19, -1, 11, 23, 0, 16]$:



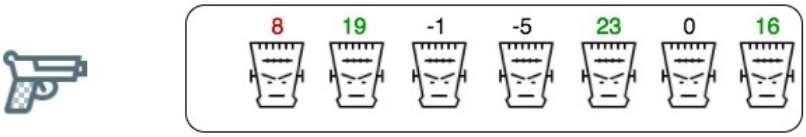
3. Shoot monster 3 so $h_3 = 11 - 8 = 3$ and h becomes $[16, 19, -1, 3, 23, 0, 16]$:



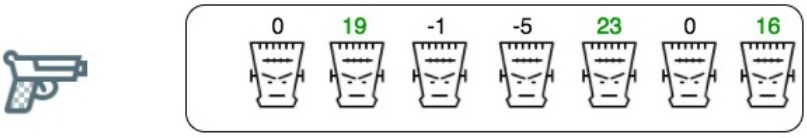
4. Shoot monster 3 again so $h_3 = 3 - 8 = -5$, monster 3 dies, and h becomes $[16, 19, -1, -5, 23, 0, 16]$:



5. Shoot monster 0 so $h_0 = 16 - 8 = 8$ and h becomes $[8, 19, -1, -5, 23, 0, 16]$:



6. Shoot monster 0 again so $h_0 = 8 - 8 = 0$, monster 0 dies, and h becomes $[0, 19, -1, -5, 23, 0, 16]$:



Thus, we print 4 as the maximum number of monsters we can kill in the given time period.