BIRTHDAY GIFT

Teo wants to buy a gift for his girlfriend on her upcoming birthday. In the gift store, there are N gift items, priced respectively V0, V1, V2, ... ,VN coins, and Teo has K coins. Please write a program to help Teo find a gift worth equal to or close to the amount Teo has.;

Input

+ The first line contains the number of gifts in store: N ($0 < N < 105$) and the amount of money that Teo has: K ($0 < K < 10^9$).

+ The second line contains N positive integers representing the price of each gift ($0 < Vi < 10^9$).

Output

Return the value of the item in the store in accordance with the amount of money Teo has.

Example

Input:
6 30
17   55   26   19   25   37   176

Output:
26