Conditional maximum value

Given a list of N integers, find the largest number in which does not exceed the given K value.

Input

+ The first line contains two integers N and K

+ The second line contains N integers ai ($-10^9 < a^i < 10^9$)

Output

+ Output the largest number, or -1 if there is no number meet the condition

Example

Input:
5 6

7 9 4 1 1

Output:
4