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## Searching

Input file:            **standard input**  
Output file:        **standard output**  
Time limit:        2 seconds  
Memory limit:     64 megabytes

Given a number  $N$  and an array  $A$  of  $N$  numbers. Determine if the number  $X$  **exists** in array  $A$  or **not** and print its position (**0-index**).

**Note:**  $X$  may be found **once** or **more than once** and **may not be found**.

### Input

First line contains a number  $N$  ( $1 \leq N \leq 10^5$ ) number of elements.

Second line contains  $N$  numbers ( $0 \leq A_i \leq 10^9$ ).

Third line contains a number  $X$  ( $0 \leq X \leq 10^9$ ).

### Output

Print the **position** of  $X$  in the first time you find it. If it doesn't **exist** print **-1**.

### Examples

standard input	standard output
3 3 0 1 0	1
5 1 3 0 4 5 10	-1
4 2 3 2 1 2	0