



HOME CONTESTS GYM PROBLEMSET GROUPS RATING API CANADA CUP 🖫 SECTIONS

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

B. Sort the Array

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

Being a programmer, you like arrays a lot. For your birthday, your friends have given you an array *a* consisting of *n* distinct integers.

Unfortunately, the size of *a* is too small. You want a bigger array! Your friends agree to give you a bigger array, but only if you are able to answer the following question correctly: is it possible to sort the array *a* (in increasing order) by reversing **exactly one** segment of *a*? See definitions of segment and reversing in the notes.

Input

The first line of the input contains an integer $n (1 \le n \le 10^5)$ — the size of array a.

The second line contains n distinct space-separated integers: a[1], a[2], ..., a[n] $(1 \le a[i] \le 10^9)$.

Output

Print "yes" or "no" (without quotes), depending on the answer.

If your answer is "yes", then also print two space-separated integers denoting start and end (start must not be greater than end) indices of the segment to be reversed. If there are multiple ways of selecting these indices, print any of them.

Examples

input	
3 321	
output	
yes 13	

input	
4 2134	
output	
yes 12	

input	
4 3124	
output	
no	

input	
2 1 2	
output	
yes 11	

Note

Sample 1. You can reverse the entire array to get [1, 2, 3], which is sorted.

Codeforces Round #258 (Div. 2)

Finished

→ Virtual participation

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Start virtual contest



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→ Contest materials

- Announcement
- Tutorial

Sample 3. No segment can be reversed such that the array will be sorted.

Definitions

A segment [I, r] of array a is the sequence a[I], a[I + 1], ..., a[r].

If you have an array a of size n and you reverse its segment [1, r], the array will become:

$$a[1], a[2], ..., a[l-2], a[l-1], a[r], a[r-1], ..., a[l+1], a[l], a[r+1], a[r+2], ..., a[n-1], a[n].$$

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