Yet Another Constructive Problem

Input file:	`standard input`
Output file:	`standard output`
Time limit:	1 second
Memory limit:	256 megabytes

You are given a permutation a of length n. You are also given positive integers k and m ($1 \le k \le m \le n$). You are asked to tell whether there exists a subsequence b of a of length m such that the length of the longest increasing subsequence of b equals k. In case such a subsequence exists, you are asked to print any correct one.

Input

First line contains three integers n, m, k ($1 \le k \le m \le n \le 5\,000$) — length of the permutation, length of the subsequence b, and length of the longest increasing subsequence of b.

Output

In the first line, output "`Yes`" or "`No`". Checker is case insensitive.

In the second line, output one of the correct subsequences if such exists.

Examples

standard input	standard output
5 2 2 4 5 3 2 1	Yes 4 5
5 2 2 5 4 3 2 1	No
6 4 2 1 3 4 2 6 5	Yes 4 2 6 5