Problem J. Jealous Split

Input file:	*standard input*
Output file:	*standard output*
Time limit:	2 seconds
Memory limit:	256 mebibytes

You have an array of non-negative integers $a_1, a_2, \ldots, a_n$.

You need to split it into k non-empty subsegments: $[1; b_1], [b_1 + 1; b_2], \ldots, [b_{k-1} + 1; n]$.

Let us denote the sum on i-th segment as s_i and the maximum on i-th segment as m_i. Your goal is to make $|s_i - s_{i+1}| \leq \max(m_i, m_{i+1})$ for each $1 \leq i \leq k - 1$.

Input

The first line of the input contains two integers n and k: the size of the array and the required number of segments $(3 \leq k \leq n \leq 100\,000)$.

The next line contains n integers $a_1, a_2, \ldots, a_n$: the given array $(0 \leq a_i \leq 50\,000)$.

Output

If splitting is possible, print "Yes" on the first line, and then print $k - 1$ space-separated integers $b_1, b_2, \ldots, b_{k-1}$ on the second line. The integers must satisfy $1 \leq b_1 < b_2 < \ldots < b_{k-1} < n$. Additionally, the inequalities $|s_i - s_{i+1}| \leq \max(m_i, m_{i+1})$ must hold for each $1 \leq i \leq k - 1$. If there are several possible solutions, print any one of them.

If splitting is impossible, print "No" on a single line.

Example

standard input	standard output
5 3 17 18 17 30 35	Yes 2 4