



## Canteen: Explicit Construction

Like often before, mouse Stofl has to stand in a long queue in the canteen (called Mensa) to get his well-deserved lunch.

He is bored and looks at his  $N$  coins and wonders whether he can pay the menu of  $M$  centimes precisely.

If so, he also wants to figure out which coins he should choose.

### Input

On the first line,  $N$  and  $M$  are given.

The second line contains  $N$  numbers  $m_i$ , the values of the coins of mouse Stofl.

### Output

Print either YES or NO. Answer the question whether he can pay exactly  $M$  centimes.

If the answer is YES, print the 1-based indices of the chosen coins on the next line, separated by spaces. If there are multiple possible solutions, print any of them.

### Limits

There are 2 groups of tests, each worth 50 points.

- In group 1, we have  $N, M \leq 100$  and all coin values are smaller than 100.
- In group 2, we have  $N \leq 1000, M \leq 10\,000$  and all coin values are smaller than 10 000.

### Examples

Input	Output
9 620 500 200 200 200 20 20 20 20 20	YES 2 3 4 5

Input	Output
9 670 50 100 200 500 10 200 10 200 20	YES 1 2 4 5 7