Distributing Candies

Input file:	`standard input`
Output file:	`standard output`
Time limit:	1 second
Memory limit:	1024 megabytes

BaoBao and DreamGrid are good friends who often share candies together. Now BaoBao has a candies, and DreamGrid has b candies, making a total of $n = a + b$ candies.

What's more, BaoBao finds that these n candies can be divided into a piles with the same amount of candies, while DreamGrid finds that these n candies can also be divided into b piles with the same amount of candies.

After mixing the candies together, they forget how many candies each of them had. You need to help them find a possible pair of positive integers a and b, or indicate that it is impossible.

Input

There are multiple test cases. The first line of the input contains an integer T ($1 \leq T \leq 10^5$), indicating the number of test cases. For each test case:

The first and only line contains an integer n ($1 \leq n \leq 10^{18}$), indicating the total number of candies.

Output

For each test case:

- If there exist such positive integers a and b, first output `Yes` in one line, then output two integers a and b separated by a space in another line. If there are multiple valid answers, you can output any of them.
- Otherwise, if there do not exist such positive integers a and b, just output `No` in one line.

Example

standard input	standard output
3 1 6 7	No Yes 3 3 No