Sharmeen And Her Friends

Sharmeen is a little girl who has many little cute friends. One day all of her friends came to her house. She wanted to play a game with her friends. In this game there will be two teams and each team should have equal team members. Sharmeeen and all of her friends will play the game. If you eliminate someone from playing the game he/she will cry and if Sharmeen refuse to play, all of her friends will become unhappy and Sharmeen doesn't want that. But they can only play the game if each team have equal team members.

Given the number of friends came to Sharmen's house, can you tell if they can play the game or not?

Input

You will be given an integer n ($1 <= n <= 10^5$) which is the number of friends of Sharmeen who came to her house.

Output

You have to print "yes" if they can play the game otherwise "no" without quote.

See the sample input output for better understanding.

Example

Input:
5

Output:
yes