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1021. Couples

Total: 32916 Accepted: 6159 Rating: 2.8/5.0(129 votes)

Description

Time Limit: 1sec Memory Limit: 32MB

N couples are standing in a circle, numbered consecutively clockwise from 1 to 2N. Husband and wife do not always stand together. We remove the couples who stand together until the circle is empty or we can't remove a couple any more.

Can we remove all the couples out of the circle?

Input

There may be several test cases in the input file. In each case, the first line is an integer N ($1 \leq N \leq 100000$)----the number of couples. In the following N lines, each line contains two integers ---- the numbers of each couple.

N = 0 indicates the end of the input.

Output

Output "Yes" if we can remove all the couples out of the circle. Otherwise, output "No".

Sample Input

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```
4
1 4
2 3
5 6
7 8

2
1 3
2 4

0
```

Sample Output

[Copy](#)

```
Yes
No
```

Problem Source: ZSUACM Team Member

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Sicily Online Judge System(Rev 20120716-961)

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