Carl, Caroline, Helen, and Han are four friends sharing a one-room workspace. The workspace has a single thermostat which they can set to any integer temperature between 35 degrees to 95 degrees Fahrenheit, inclusive.

The four friends can't agree on the room's temperature! Carl and Caroline don't want it to be too cold, while Helen and Han don't want it to be too hot. Specifically:

- Carl wants it to be at least $c_{1}$ degrees Fahrenheit.
- Caroline wants it to be at least $c_{2}$ degrees Fahrenheit.
- Helen wants it to be at most $h_{1}$ degrees Fahrenheit.
- Han wants it to be at most $h_{2}$ degrees Fahrenheit.

Given $c_{1}, c_{2}, h_{1}$, and $h_{2}$, is there a satisfactory temperature that all four friends will be happy with? If it's possible, print YES ; otherwise, print NO.

## Input Format

Four space-separated integers describing the respective values of $c_{1}, c_{2}, h_{1}$, and $h_{2}$.

## Constraints

- $35 \leq c_{1}, c_{2}, h_{1}, h_{2} \leq 95$


## Output Format

Print Yes if it's possible to satisfy all four friends' conditions; otherwise, print No instead.

## Sample Input 0

$50 \quad 40 \quad 70 \quad 60$

## Sample Output 0

YES

## Explanation 0

The four friends have the following temperature preferences:

- Carl wants it to be at least $c_{1}=50$ degrees.
- Caroline wants it to be at least $c_{2}=40$ degrees.
- Helen wants it to be at most $h_{1}=70$ degrees.
- Han wants it to be at most $h_{2}=60$ degrees.

Any temperature between 50 and 60 degrees will satisfy all four friends, so we print YES .

## Sample Input 1

```
55 66 66 77
```


## Sample Output 1

```
    YES
```


## Explanation 1

The four friends have the following temperature preferences:

- Carl wants it to be at least $c_{1}=55$ degrees.
- Caroline wants it to be at least $c_{2}=66$ degrees.
- Helen wants it to be at most $h_{1}=66$ degrees.
- Han wants it to be at most $h_{2}=77$ degrees.


A temperature of exactly 66 degrees will satisfy all four friends, so we print YES .

## Sample Input 2

```
80 80 40 40
```


## Sample Output 2

NO

## Explanation 2

In this test case, Carl wants the temperature to be at least $c_{1}=80$ and Helen wants it to be at most $h_{1}=40$. There is no temperature that is both $\geq 80$ and $\leq 40$, so we print No because no satisfactory temperature exists.


