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CODEFORCES
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HOME   TOP   CATALOG   CONTESTS   GYM   **PROBLEMSET**   GROUPS   RATING   EDU   API   CALENDAR   HELP

PROBLEMS   SUBMIT   STATUS   STANDINGS   CUSTOM TEST

A. Vasya the Hipster

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

One day Vasya the Hipster decided to count how many socks he had. It turned out that he had a red socks and b blue socks.

According to the latest fashion, hipsters should wear the socks of different colors: a red one on the left foot, a blue one on the right foot.

Every day Vasya puts on new socks in the morning and throws them away before going to bed as he doesn't want to wash them.

Vasya wonders, what is the maximum number of days when he can dress fashionable and wear different socks, and after that, for how many days he can then wear the same socks until he either runs out of socks or cannot make a single pair from the socks he's got.

Can you help him?

Input
The single line of the input contains two positive integers a and b $(1 \le a, b \le 100)$ — the number of red and blue socks that Vasya's got.

Output
Print two space-separated integers — the maximum number of days when Vasya can wear different socks and the number of days when he can wear the same socks until he either runs out of socks or cannot make a single pair from the socks he's got.

Keep in mind that at the end of the day Vasya throws away the socks that he's been wearing on that day.

Examples

input	Copy
3 1	

output	Copy
1 1	

input	Copy
2 3	

output	Copy
2 0	

input	Copy
7 3	

output	Copy
3 2	

Note
In the first sample Vasya can first put on one pair of different socks, after that he has two red socks left to wear on the second day.

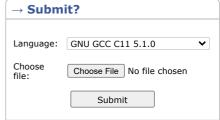**→ Virtual participation**   ⌄

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

[Start virtual contest]

→ Clone Contest to Mashup   ⌄

You can clone this contest to a mashup.

[Clone Contest]

→ Submit?

Language: [GNU GCC C11 5.1.0   ⌄]

Choose file: [Choose File] No file chosen

[Submit]

→ Problem tags

[implementation] [math] [*800]
No tag edit access

→ Contest materials

- Announcement   ✕
- Tutorial   ✕

Server time: Oct/03/2023 11:37:15$^{UTC+5.5}$ (k2).
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