Problem: 13

IPO

Input:

First Jug, Second Jug

Process:

- Take the input of Second and First Jug.
- Fill first Jug completely.
- Pour water from first Jug into Second Jug untill the Second Jug is full or first Jug is empty.
- Whenever first Jug become empty fill it.
- Whenever second Jug become full empty it.
- Repeat the process, tracking amount of water in each Jug untill required quantity of water is obtained.

Output:

Required quantity of water.

- Pseudocode:

Take input for first Jug
Take input for second Jug.
Fill the first Jug completely.
Pour water from first Jug to second Jug untill
the second Jug is full or first Jug is empty.
Whenever first Jug becomes empty fill it.
Whenever second Jug becomes full empty it.
Repeat the process, tracking amount of water in
each Jug untill required quantity of water
is obtained.

- Flowchart:

```
                    ( Start )
                        |
                        v
        / First Jug, Second Jug /
                        |
                        v
        | Fill the First Jug completely |
                        |
                        v
    | Pour water from First jug into second Jug untill
      the second Jug is full or First Jug is empty. |
                        |
                        v
    | Whenever the First Jug becomes empty fill it |
                        |
                        v
    | Whenever the second Jug becomes full empty it |
                        |
                        v
    | Repeat the process, tracking the amount of water
      in each Jug, untill required quantity of water
      is obtained. |
                        |
                        v
                    ( End )
```