

Increaser

```
while money_in_the_box:
    while increasers_turn:
        enter_to_the_critical_section
        if other_increasers_are_not_in_the_same_turn:
            wait
        increment_turn
        increment_money
        print_money
        if turn_finished:
            print_turn
        if decreasers_turn:
            decreasers_turn = true
        leave_critical_section
```

Decreasers

```
while money_in_the_box:
    while decreasers_turn:
        enter_to_the_critical_section
        if other_decreasers_are_not_in_the_same_turn:
            wait
        if odd_even_not_matches:
            if there_are_other_processes_that_match:
                wait // To try again after other processes changed money
            else
                print odd_even_not_matching
                increment_turn
                if turn_finished
                    print turn_finished
            continue
        increment_turn
        decrement_money
        if money_positive:
            print_money
            if turn_finished:
                print turn_finished
        else:
            print fibonacci_is_bigger_than_money
            money_in_the_box = false
        fibonacci = next_fibonacci
        if increasers_turn:
            increasers_turn = true
        leave_critical_section
```

Compile: gcc -std=c99 main.c -lpthread -o main

Run: ./main 150 4 2 2 4

Koray Kural 150170053 01.06.2020