

LAPORAN PSEUDOCODE & FLOWCHART

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PRODI SAINS DATA TERAPAN

SEPTEMBER 2023

1. Create Fibonacci sequence sequence of 0, 1, 1, 2, 3, 5, 8 ...

Input : number for range stop

Process : x less or equal than 1 return x, if more than 1 calculate fibonacci(x-1) + fibonacci(x-2)

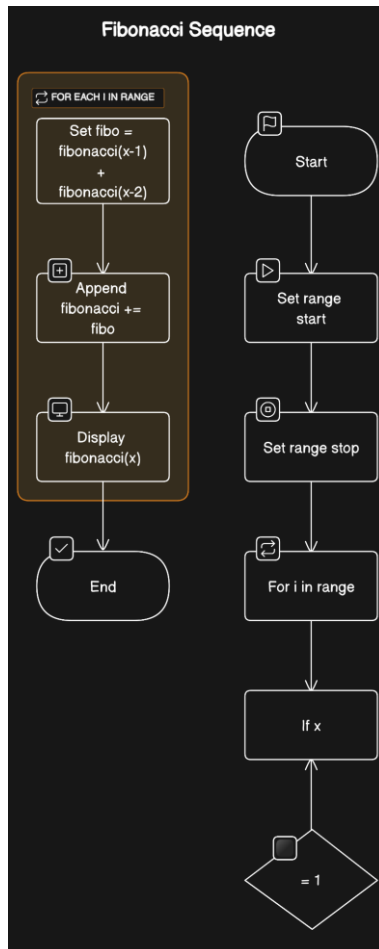
Returns the n Fibonacci number. If n is equal to 0 or 1, then the function will return the value 0 or 1. If n is greater than 1, then the function will return the sum of the (n-1) and (n-2) Fibonacci numbers.

Output : DISPLAY fibonacci(x)

PSEUDOCODE:

```
INPUT x
SET range start
SET range stop
FOR i in range:
    IF x <= 1:
        return x
    ELSE:
        SET fibo = fibonacci(x-1) + fibonacci(x-2)
        APPPEND fibonacci += fibo
DISPLAY fibonacci(x)
END
```

FLOWCHART:



2. Create Program using LIFO

Input : nominal uang

Process : make a list and create function for removes list, delete latest siswa in the list using the get list

Output : display result of removes function

PSEUDOCODE:

INPUT uang

SET dompet = []

Add uang = [50.000, 20.000, 10.000]

Append uang to dompet

Display dompet

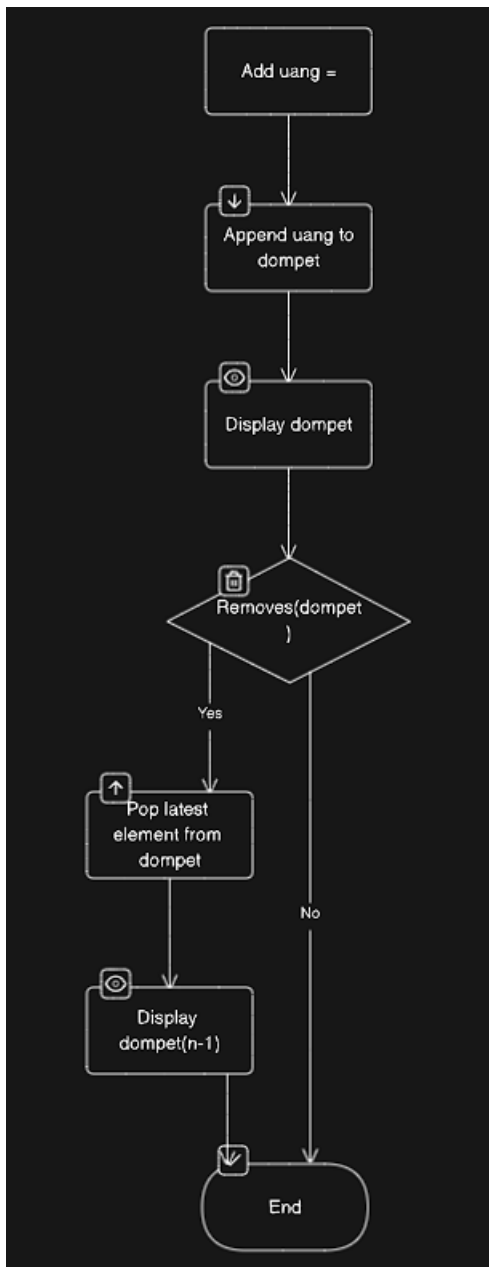
REMOVES (dompet) :

POP latest element FROM dompet

Display dompet(n-1)

END

FLOWCHART:



3. Create Program using FIFO

Input: siswa

Process: make a list and create function for get list, delete earliest siswa in the list using the get list

Output: display result as get function

PSEUDOCODE:

```
INPUT siswa
SET kelas = []
Add siswa = [bayu, andi, afif, dimas, ricko]
Append siswa to kelas
Display kelas
GET(dompet):
DEQUEUE earliest element FROM kelas
Display kelas(n-1)
END
```

FLOWCHART:

