Inputs

- 10 array Integers from Keyboard
- 1 clamp value integer from keyboard

Outputs

- Message asking for user to input 10 array values
- Message displaying array
- Message stating calculating average
- Message stating dividing occurring
- Message displaying divided array
- Message stating clamping occurring
- Message displaying clamped array
- Message asking if user wants to continue program or exit

Variables

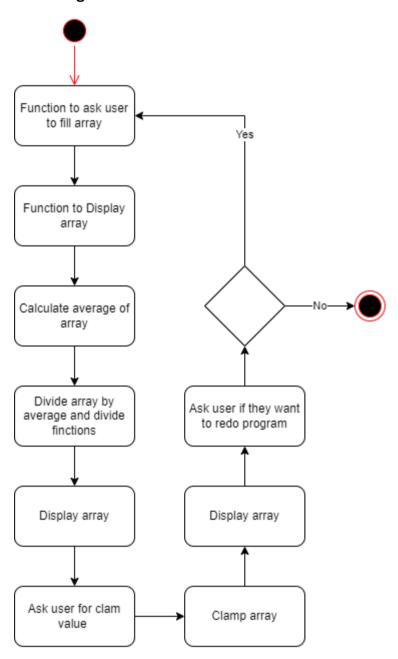
- Input array of size 10, for integers: arrar
- Output BYTE for saying display function occurring: msgDisplay
- Output BYTE for saying display function occuring: msgDisplay
- Output BYTE message for saying input function occurring: msgInput
- Output BYTE message asking for array input integer: msglnputValue
- Output BYTE for saying average function is occuring: msgAverage
- Output BYTE for saying divide method is occuring: msgDivide
- Output BYTE message for saying clamping function is occuring: msgClamp
- Output BYTE message for asking user for clamp integer: msgInputClamp
- Output BYTE for asking user if they want to exit program: msgExit
- Output BYTE for formatting, space and comma: msgSpace
- Output BYTE for formatting, goes to next line: msgLine

Algorithm

- 1. Loop 10 times, asking user for 10 integers to fill array with
- 2. Loop through array and display each value
- Calculate average of array by summing all array values together, and dividing by 10
- **4.** Divide each integer in array by that averahe
- **5.** Display array
- **6.** Ask user for a clamp value

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 - 7. Set the max value of each integer in array to that clamp value
 - 8. Display array
 - 9. Ask user if they want to exit array, or continue (go to step 1)

Flow Diagram



Stack Diagrams

Input Function

Old EBP
EDX
ECX
EBX
EAX
FLAGS <-ESP

Display Function

Old EBP
EDX
ECX
EBX
EAX
FLAGS <-ESP

Average Function

Old EBP
EDX
ECX
EBX
FLAGS <-ESP

Divide Function

Will store ecx
eax
Old EBP
EDX
ECX
EBX
EAX
FLAGS <-ESP

Clamp Function

Old EBP
EDX
ECX
EBX
EAX
FLAGS <-ESP