1. Set up 5 X 3, 2D array (5 rows and 3 columns), Initialize values with 10
2. Print prompt menu
3. Accept integer from user
4. Set loop // It exits when user inputs 4

Check integer

* 1. If integer is 1, // Replace value
     + Print prompt : which row
     + Accept row index starts from 0
     + Print prompt : which index
     + Accept colums index starts from 0
     + Print prompt : what value
     + Accept value to replace
     + Calculate address to with user inputs
     + Replace value with user input
     + Back to 4
  2. If integer is 2, //Calculate all the values
     + Loop until the last row(Outer loop)
       - Loop util the last column(Inner loop)
         1. Access column index
         2. Add value
         3. Increment index
         4. End of column?

No back to inner loop

Yes exit inner loop

* + - * Increment row index
      * End of row

No back to outer loop

Yes exit outer loop

* Back to 4
  1. If the integer is 3, //Print out the 2D array
     + Loop until the last row(Outer loop)
       - Loop util the last column(Inner loop)
         1. Access column index
         2. Store value
         3. Syscall
         4. Print value
         5. Increment index
         6. End of column?

No back to inner loop

Yes

Print “\n”

exit inner loop

* + - * Increment row index
      * End of row?

No back to outer loop

Yes exit outer loop

* Back to 4
  1. If integers is 4,
     + Exit loop

1. Exit program