Solve the Following given code for the asked questions according to the specific given array
White pages (stapled) Hand written, all function calls, details, steps, – In Class Friday 17th May

LetsDivide(A, Start, End)

if Start >= End	//Line 1
Do Nothing	//Line 2
else	//Line 3
X = LetsFind(A, Start, End)	//Line 4
LetsDivide(A, Start, X-1)	//Line 5
LetsDivide(A, X+1, End)	//Line 6

LetsFind(A, Start, End)

M1:	Key = A[End]
M2:	SE = Start
M3:	for j = Start to (End – 1)
M4:	if A[j] <= Key
M5:	exchange A[SE] & A[j]
M6:	SE = SE +1
M7:	exchange A[SE] & A[j]
M8:	return SE

****

Solve the following for A = {18, 8, **D1**, 24, 22, **D2**, 26, 15, **D3**, 31, 23, **D4**, 17}.
Complete the above given array with your Id's last 4 digits D1D2D3D4 (L to R)
(**Note**: **Indexing** starts from **0**, when control reaches a line, means line not executed but last line whole work is completed. In a loop keep in mind that how many time loop for/while run)
For every step again draw the array

a) Write contents of array 'A' and all the function calls (**LetsFind** & **LetsDivide** with parameters), when 4th call for **LetsFind** is completed. [Tree form structure]

b) Write the values of '**Key**,' and contents of '**A**' when **M4** is executed for 15th time

c) Write contents of array 'A' and all the function calls (**LetsFind** & **LetsDivide** with parameters), when 3rd call for **LetsDivide [Line5]** is **completed**. [Tree form structure]

d) Write the values of '**Key**,' and contents of '**A**' when **M5** is executed for 10th time

e) Write contents of array 'A' and all the function calls (**LetsFind** & **LetsDivide** with parameters), when 3rd call for **LetsDivide [Line6]** is **completed**. [Tree form structure]

Example:
For ID L1F20BSCS0343 array A will be {18, 8, **0**, 24, 22, **3**, 26, 15, **4**, 31, 23, **3**, 17}
First call for the start will be **LetsDivide(A, 0, 12)**