1.) a.) 64 • 13

function(64, 13)

↓

function(32, 26)

↓

function(16, 52)

↓

function(8, 104)

↓

function(4, 208)

↓

function(2, 416)

↓

function(1, 832)

↳ n==1 **return 832**

b.) 60 • 13

function(60, 13)

↓

function(30, 26)

↓

function(15, 52)

↓

52 + function(7, 104) → **return 780**

↓

104 + function(3, 208) → 104 + 624 = 728

↓

208 + function(1, 416) → return 624

↳ n==1 return 416

c.) 59 • 13

function(59, 13)

↓

13 + function(29, 26) → 13 + 754 = **767**

↓

26 + function(14, 52) → 26 + 728 = 754

↓

function(7, 104)

↓

104 + function(3, 208) → 104 + 624 = 728

↓

208 + function(1, 416) → 208 + 416 = 624

↳ n==1 return 416

2.) A = [100, 213, 65, 29, 153, 199, 47, 181, 85]

function(A, 0, 8):

p = A[left] = A[0] = 100

s = 0

for i in range(0+1, 8+1):

i = 1 → A[1] = 213 > p = 100 L=0 R=8 s=0 NO SWAP

i = 2 → A[2] = 65 < p = 100 L=0 R=8 s = 0+1 = 1

Swap(arr, 1, 2) [100, 65, 213, 29, 153, 199, 47, 181, 85]

i = 3 → A[3] = 29 < p = 100 L=0 R=0 s = 1+1 = 2

Swap(A, 2, 3) → [100, 65, 29, 213, 153, 199, 47, 181, 85]

i = 4 → A[4] = 153 > p = 100 L=0 R=8 s=2 NO SWAP

i = 5 → A[5] = 199 > p = 100 L=0 R=8 s=2 NO SWAP

i = 6 → A[6] = 47 < p = 100 L=0 R=8 s=2+1 = 3

Swap(A, 3, 6) → [100, 65, 29, 47, 153, 199, 213, 181, 85]

i = 7 → A[7] = 181 > p = 100 L=0 R=8 s=3 NO SWAP

i = 8 → A[8] = 85 < p = 100 L=0 R=8 s=3+1 = 4

Swap(A, 4, 8) → [100, 65, 29, 47, 85, 199, 213, 181, 153]

i = 9 → stop loop L=0, R=8, S=4 NO SWAP

Swap(A, 0, 4) → [85, 65, 29, 47, 100, 199, 213, 181, 153]

return s=4