HW 4

i) void large (int arr [], int low, int high) {

int if (low < high) {

int pixt = arr [high];

([heid]na = #q tri

for (int j=low; i <= high -1; i++) {

if [arrCiJ < piv) {

itt

Swap (arrCi), arrCi);

3 Swap (arrCi), arrCi),

SWap (arr [iti], arr [high]);

Int p= i+1; darge (arr, low, P-1); large (arr, P+1, high);

return arr[sizeof(air)-1]

M(n) = 2M(2) + 1 a = 2 b = 2

M(n) & O(nlogn)

double divide (1) { if (n==1) return 3' elser int x = divide(=); if (n% 7 == 0) return x*x; else return x*x*a; triomio (n, loc) 2 if (n==2) 2 Place the on left side 3 return Place L-Shiped fromino divide in # n/2 x 1/2 subboards Triomio (E, loc1), triom10 (2, 10c2), triomid(2,1003); triomio(2,10c4);