91) MOM (Array, 1, 1, 12) & m = 1/5 For [i = i tom) MCi]= meadin (Array Si-4, Si) Median (MoM (M, 1, m, m/g) Y E Partition (A, I, n, median) if (KZK) netwo Mom [Arg I, 8-1, E); else it (K>Y) Section MoM (Array, 8+1, n, Kr) retur median int main (Sum = total sum of all weights

int temple o, temps = 0, start=1 while (true) median = Mom (Array, 1, n), n/2 For (intient; 1 \(\text{N}; \) ? if (Array [i] & tempmedian temp1 + = weight[i] else if (Array [i] > median) tempe + = weight [i] if (temp1 4 Sum/a & & temp 2 2 Sum/a) 2 ans = median 3 break) Sam/a)
else if (temp! Ssam/a) n = n/2temp = 0 start = 1/2 temp 2 = 0 else \$

My logic in words

- O Finding the median by MoM
- (8) checking it median satisfies
 the given condition condition
 it yes median is the ans
- The ans will be less than the current median, so applying same logic for the left half of away
- To else applying some logic for right half

= 2((A)) N = 0(N)/