Binary Search

Kth-Sum \rightarrow most classic one

-> checking paret is very normal

(just fix it)

- -> Binarry search part ***
 - · How can we be sure that the final mid will be one of the sums?
 - → it will definitely be (but we must come from the right side)

say we got sums like that 1 2 5 (7) 10 12 12 15 20 we want 4th smallest sum (7) say at some point we got mid = 9 50, toπ <=9, cn+ = 4 = K but we are searching that smallest x for which still ent >= k so, again we will try to find 2 3ay mid = 8 cnf = 4then mid = (7) ** cn+ = 4 but we cannot move left now because ont will be (3)

9 (कारू म्रव्याभ still cont = 4

8 (कारू म्रव्याभ still cont = 4

but 7 (कारू म्रव्य मार्ग मार्ग रे cnt = 3

that means -> 7 निर्द्ध महों।

sum दिला

check (mid) $\langle = k \rightarrow ans = 9$ because we will get the last value tore which cn+ $\langle = k \rangle$