5) Infinite Array (without using array length)
Find target

CITT=[2,3,5,6,7,8,10,11,12,15,20,23,30]

know the length of an array.

using length of array.

Let's look How can we solve it?

- First we have to find size of an array

we can search target in the chunk (smaller part)

1

than we double the size of chunk and apply binary search in that chunk.

- continue this process until we reach at target.

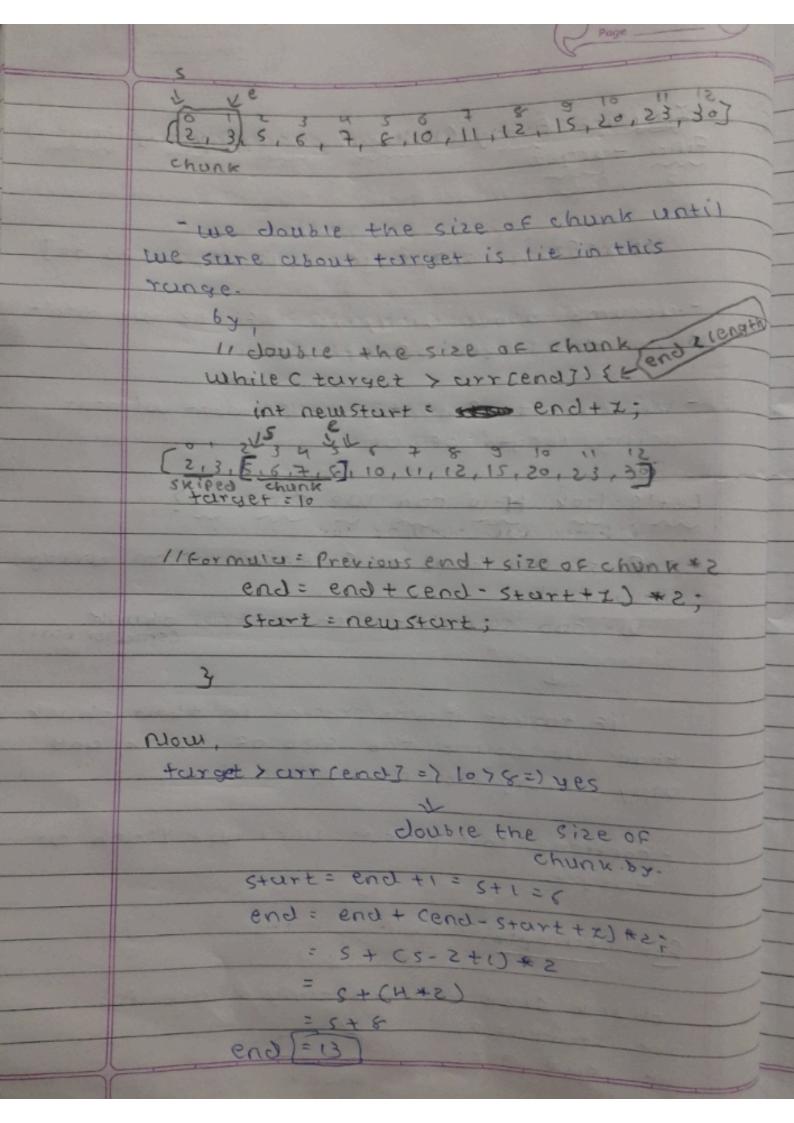
for Example,

chunk size in starting phase is:

int start = 0;

int end = x;

Chunk



[2, 3, 5, 6, 7, 8, [10, 11, 12, 15, 20, 23, 30];

skipped chank

vou,

target > urreend] =) No!

so target lies in this range

- apply binary search

Let's code

Infinite Array (inter arr, int target) &

double the size

( int start = 0; int end = 1;

while ( end < length & R& turget > urreend]) {
int newstart = end t1;

start = new start;

return binary search (arr, target, start, end);

binary search Cinter art, int target, int Start, int enal { while Cstart <= end) ( int mid = start + (end-start) /2; if Ctarget > arrEmid]) { steert: midti; else is Ctarget ( arrEmid)) { :1- bin = 609 return mid; /1 target found return -1; 11 is target not sound