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Quezi:
a) Step 1: Start

Step a : Intlalize lo=0 and hi=n-1 unare in one rongon of away

Step 3: Run a loop unic Clo <= hi). y it is gause there go to

Step 4: mid = 10 + (hi-10)/2

Step 5: check is aurcmid] == 2 where re is the element to be searched. If the cond. år tøne spen setman tøne. y condition is faire then octum to Step 6.

Step 6: if and comid ] < se. if condto is touc other besters orther whe go to step 7. LOS miats

Step 7: y Concienid] >2). y Concie Jeon is true then wine.

Step 8: repeat the loop. hidzmid-1 Thouse,

=> nmc In himary Gearch, the array gets divided by hay at every, 9+01020000 13+ ituation longth = n and itenation rought = u/s beth ituration length = Mak Ar grow (k' division, the length ey the 00 NISK = T D = 5/2 - (1) Taking log book side (1) logn = log(2k) 1x = 10gh Shauha!

