Searching Session

) To Sind something

) List = [2, 3, 4, 10, 1, 6]

Target = 5

F(List, 5) = -1, Not

Target = 10

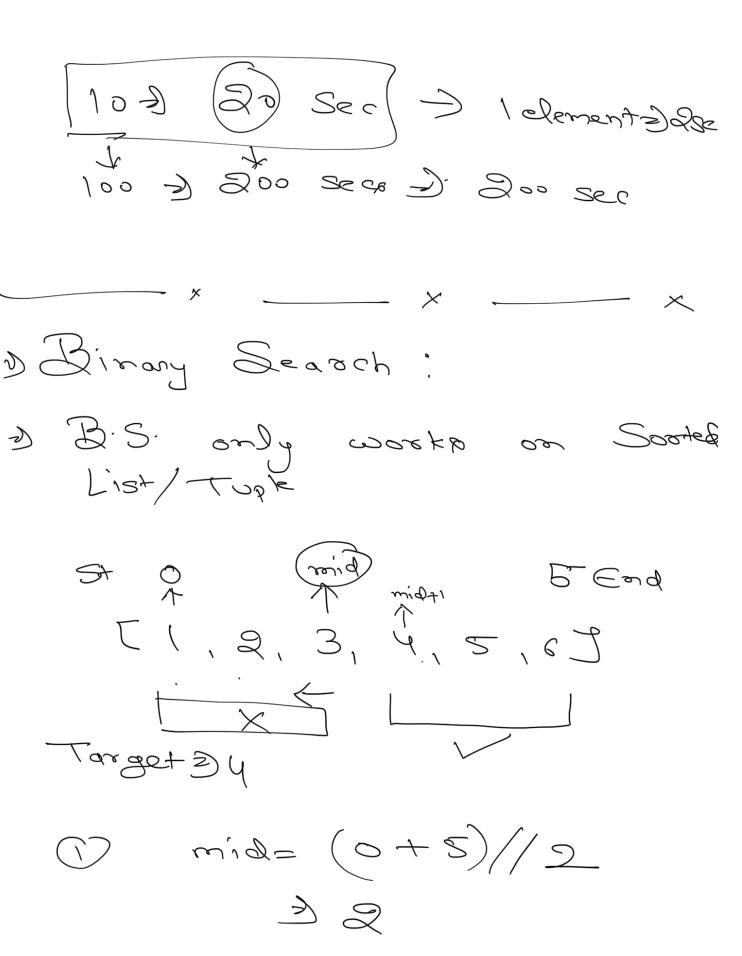
F(List, 10) = 3

D'imear Search:

Time Time

Time

To a search of the searc

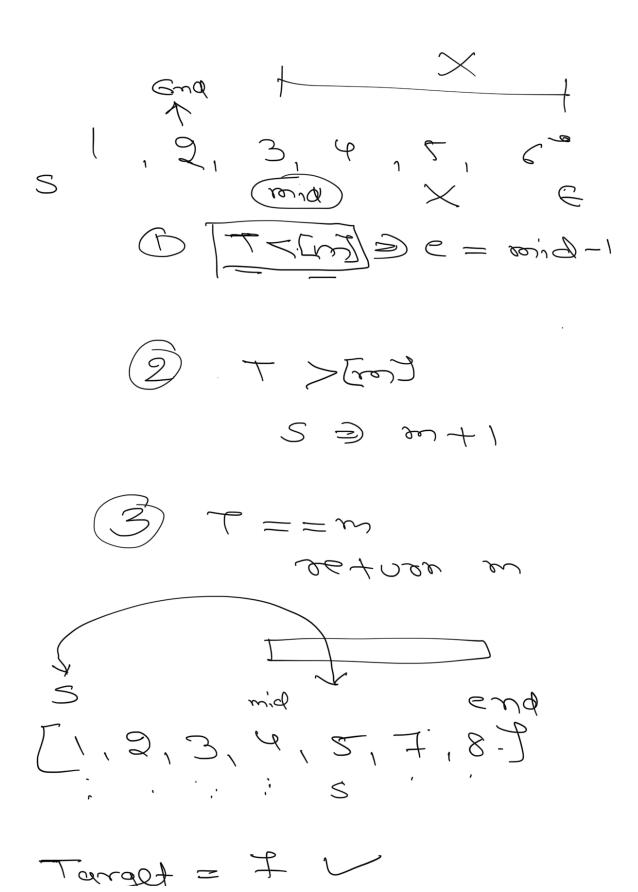


01401 9 ... Start 2) 3 end 55 mid = (3+5)//2 Lacot > H Compar (target, midpoint) end 3 mid-1 end 3 5+33 em=33 $mid \Rightarrow (3+3)/(2 \Rightarrow 3$

Compare (mid, Target)

tegles noutso Stare 5=0 [end = len-1 Sze To Szend mid = (S+e)//2 [w]> 7 [m] of T 1==[m] return

, 10 90



Torget =) 6

Frankling mid

0 - 1 0 1

3 S = 4, $end \ge 4$ Description

Solve to S = 4Solve to S

 $\uparrow \qquad \uparrow \qquad \uparrow$

1 2 3 4 2 5 Z

St > end No

N < length 0 N/2 3 (W2)
0 N/4 4 N/2
3 N/8 3 N/2
3 $N(Q^{K} \geq 1$

N = 2 $209N \Rightarrow 2092$ 31 $209N \Rightarrow KXI$ $K \Rightarrow 2092$ 31