

Crampi³
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Pata
Structure

binary Search (int(1 arr) int x) of

$$low = D$$
;

 $high = m - 1$;

while ($low < = high$) of

 $mid = (low + high)/\partial j$;

if ($adv(mid) = = x$) of

 $setum mid$;

else if ($avv(mid) < x$) of

 $low = mid + 1j$;

 $bow = mid + 1j$;

$$Qw(2) = 6 = = 10 X$$

6 < 10

) 2 ight
$$qidz = 46$$
 $low = 3$
 $mid = 3 + 4 = 3$

___ oth iteration —— 1st iteration ___ 2nd iteration k iterations $\frac{n}{2^k} = 1$ Scarchiy Clement $log_{\perp} n = k log_{\perp}$ K = 1057 # iterations

Time complexity = 0 (10gh)