TI AXI Paralla a
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DAA: Binary Seasich
-> half-interral or logarithmic search
-> Dester should be in array & sorter
Algo :-
1.) Set 1 to 0 and R to n-1.
L- left most de
R-right most " "
2) If L>R, the seasich terminates as unsuccessful.
3.) Set m (the position of the middle
element) to the Hoor (the largest previous integen) of (LtR)/2.
-) Retyan m.
5.) if T> Am set 1 to m +1 & go to
6) if T < Am set R to m-1 & go to

5 int binary Search (int arr[], int 2, int 31, int x)
$\frac{1}{3}if\left(34\right)=1$
$\frac{3}{100}$ int mid = 1 + (91-1) /2;
if (arr[mid] = = xc) yetun mid;
it (arr[mid] > x) yeturn binarySearch (arr,), mid-1, x);
Hetuan binary Search (arr, mid +1, r,
3 3 etu 31 m -1; SUNDAY BY

Array: \\ 1,2,3,50,60,81,4,123,51, = 0 + (10-1)/2antmid] = 60 9 < 60 arr[mid]= 2 = 2 netyan