Write an alogorithm to depict Binary Search.

```
Solution:-
Def. binary Search(A,x):
n=len(A)
beg=0
end=n-1
result=-1
while(beg<=end);
mid=(beg+end)/2
if(A[mid]<=x):
beg=mid+1
result=mid
Else:
end=mid-1
```

Return result

## Binary Search Time Complexity:

- Best Time Complexity: O(1)
- Average Time Complexity: O(logn)
- Worst Time Complexity: O(logn)