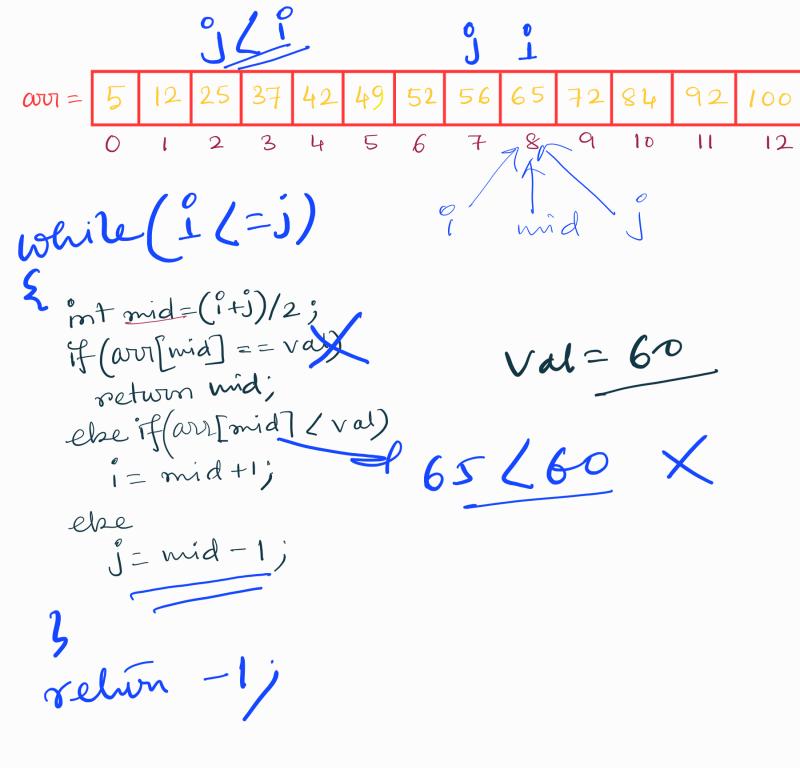
nary Search A (Sorted Array) B. Two pointer Val = 165 4 mid mid = 1+1 Harr[mid] (val) i= mid+L) else f(arr[mid]>val) j= mid-1; mid 2 7+8 int mid=(i+j)/2; if (arr[mid] == val) return mid; else if (arr[mid] (val) i= mid+1; else j= mid-1;



Space and Time Complexity

```
int BiSearch(int a[],int n,int val)
int i=0, j=n-1;
while(i<=j)
                                Time Complexity :-
  int mid = (i+j)/2
  if(a[mid]==val)
  return mid:
  else if(a[mid]<val)
                               Best Case: O(1)
  i=mid+1;
  else
  j=mid-1;
                               Average and Worst Case
return -1;
```