**BINARY SEARCH**

public static int binary(int A [], int n, int x)  
{  
 int left, right,mid;  
 left=0;  
 right=n-1;  
 while(left<=right)  
 {  
 mid=(left+right)/2;  
  
 if(A[mid]==x)  
 {  
 return mid;  
 }  
 if(A[mid]<x)  
 {  
 left=mid+1;  
 }else  
 right=mid-1;  
 }  
  
 return -1;  
}