

Program:

```
public int binarySearch(int array[], int x, int low, int high) {  
    while (low <= high) {  
        int mid = low + (high - low) / 2;  
  
        if (array[mid] == x)  
            return mid;  
  
        if (array[mid] < x)  
            low = mid + 1;  
  
        else  
            high = mid - 1;  
    }  
  
    return -1;  
}
```

```
int n = qw.length;  
  
int result=t.binarySearch(qw, 3, 0, n-1);  
if (result == -1)  
    System.out.println("Not found");  
else  
    System.out.println("Element found at index " + result);
```

Output:

```
Enter array size  
5  
Enter array values  
1  
2  
3  
4  
5  
Values are:  
1      2      3      4      5  
Element found at index 2
```