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//program of binary search
//Krishnapriyavr_37
#include <stdio.h>
Int binarysearch(int arr[], int n, int key) {
Int l = 0, r = n – 1, flag = 0;
While (l <= r) {
Int mid = l + (r – l) / 2;
If (arr[mid] == key) {
Printf(“ELEMENT FOUND AT POSITION- %d \n”,mid+1);
Flag = 1;
Break;
} else if (arr[mid] < key) {
L = mid + 1; // search the right half
} else {
R = mid – 1; // search the left half
}
}
If (flag == 0) {
Printf(“ELEMENT NOT FOUND\n”);
}
}
Int main() {
Int n;
Printf(“Enter the array limit: “);
Scanf(“%d”, &n);
Int arr[n];
Printf(“Enter %d elements in sorted order:\n”, n);
For (int l = 0; l < n; i++) {
Scanf(“%d”, &arr[i]);
}
Int key;
Printf(“Enter the element to search: “);
Scanf(“%d”, &key);
Binarysearch(arr, n, key);
Return 0;
}
```

OUTPUT

```
Enter the array limit: 3
Enter 3 elements in sorted order:
77
88
99
Enter the element to search: 88
ELEMENT FOUND AT POSITION-
```