

IMPLEMENTATION BINARY SEARCH

/* Binary search array elements are in Ascending order

```
#include <stdio.h>
```

```
void main()
```

```
{
```

```
int a[100], n, i, keyvalue, mid, lb, ub;
```

```
clrscr();
```

```
printf("\n Enter Array size:");
```

```
scanf("%d", &n);
```

```
printf("\n enter %d Array Elements in Ascending order: \n", n);
```

```
for (i = 0; i < n; i++)
```

```
{
```

```
scanf("%d", &a[i]);
```

```
}
```

```
printf("\n Enter keyvalue to be searched:");
```

```
scanf("%d", &keyvalue);
```

```
lb = 0;
```

```
ub = n - 1;
```

```
do
```

```
{
```

```
mid = (lb + ub) / 2;
```

```
if (keyvalue < a[mid]);
```

```
ub = mid - 1;
```

```
else if (keyvalue > a[mid])
```

```
lb = mid + 1;
```