```
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4 th sem 'B'section
IBM 19CS O 8H
ADA - LAB.
```

Recurssive binary search.

```
vint bs (top, bottom, arrig, k)
                                    if (top == bottom && ascinid)
   int mid = (boHom +top)/2;/
    if ( arr[mid] = = k)
       return mid;
    else if (arr [mid] > k)
        top = mid;
        return be (top, bottom, arr, k)
    else
     bottom = mid;
        return bs (top, bottom, arr, K)
```

recurssive linear search.

```
int 18 (c, arr, k), n)

{

(b (c == n)

return -1;

(b (carr(c) == k)

return c;

return 18 (c+1, arr, k, n);

}
```

```
int mode (k, axx 1, n)

{

int i=0

fox (int j=0; j< n; j++)

if (axx 2 3 == k)

i++;

xeturn i;

}
```