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#include<stdio.h>
#include<conio.h>
int n, val, a[20];
void search(int n, int val){
    int first=0;
    int last=n-1;
    int middle=(first+last)/2;
    while(first<=last){
        if(a[middle]==val){
            printf("\nvalue found at position %d", middle);
            break;
        }
        else if(a[middle]<val){
            first=middle+1;
        }
        else if(a[middle]>val){
            last=middle-1;
        }
        middle=(first+last)/2;
    }
    if(first>last){
        1:1
```

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}
middle=(first+last)/2;
}
if(first>last){
printf("\nvalue not found.");
}
}
void main(){
int i;
clrscr();
printf("\nEnter size:");
scanf("%d",&n);
printf("\nEnter elements:");
for(i=0;i<n;i++){
scanf("%d",&a[i]);
}
printf("\nEnter value to search:");
scanf("%d",&val);
search(n,val);
getch();
}

```

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enter size:5

enter elements:3

8

9

4

2

enter value to search:9

value found at position 2