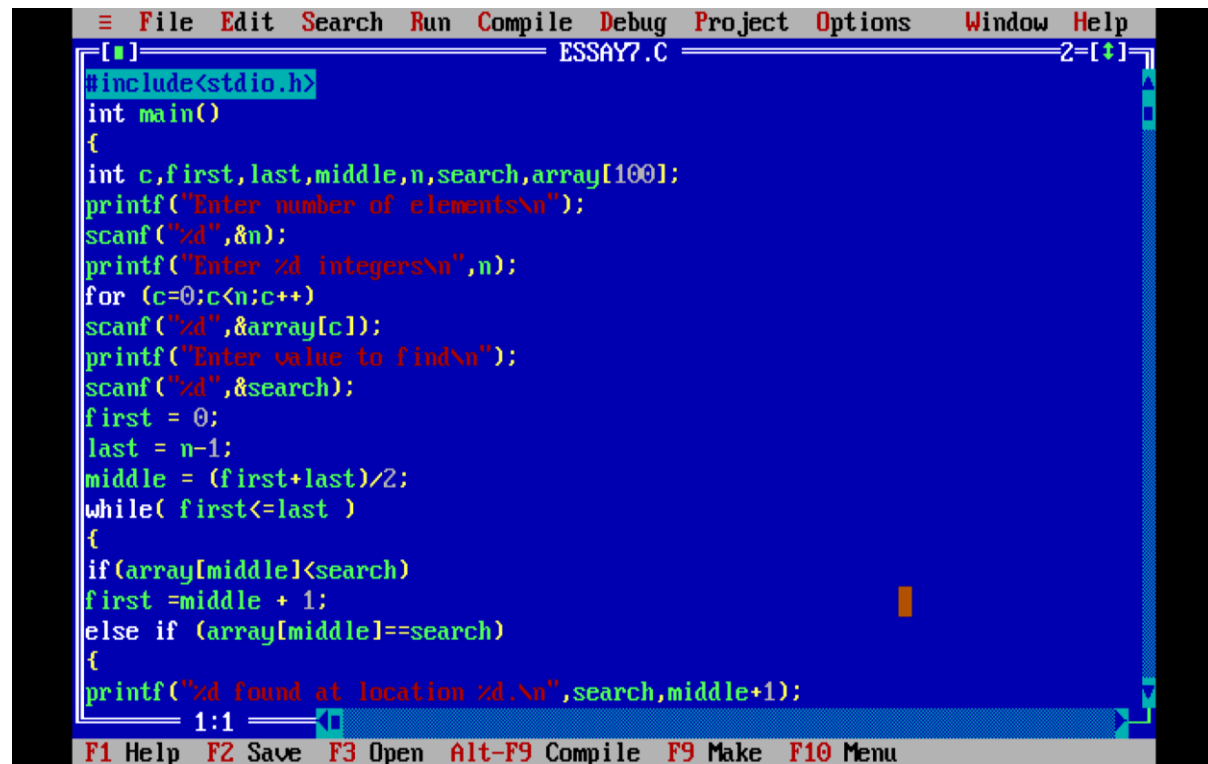


Binary number:

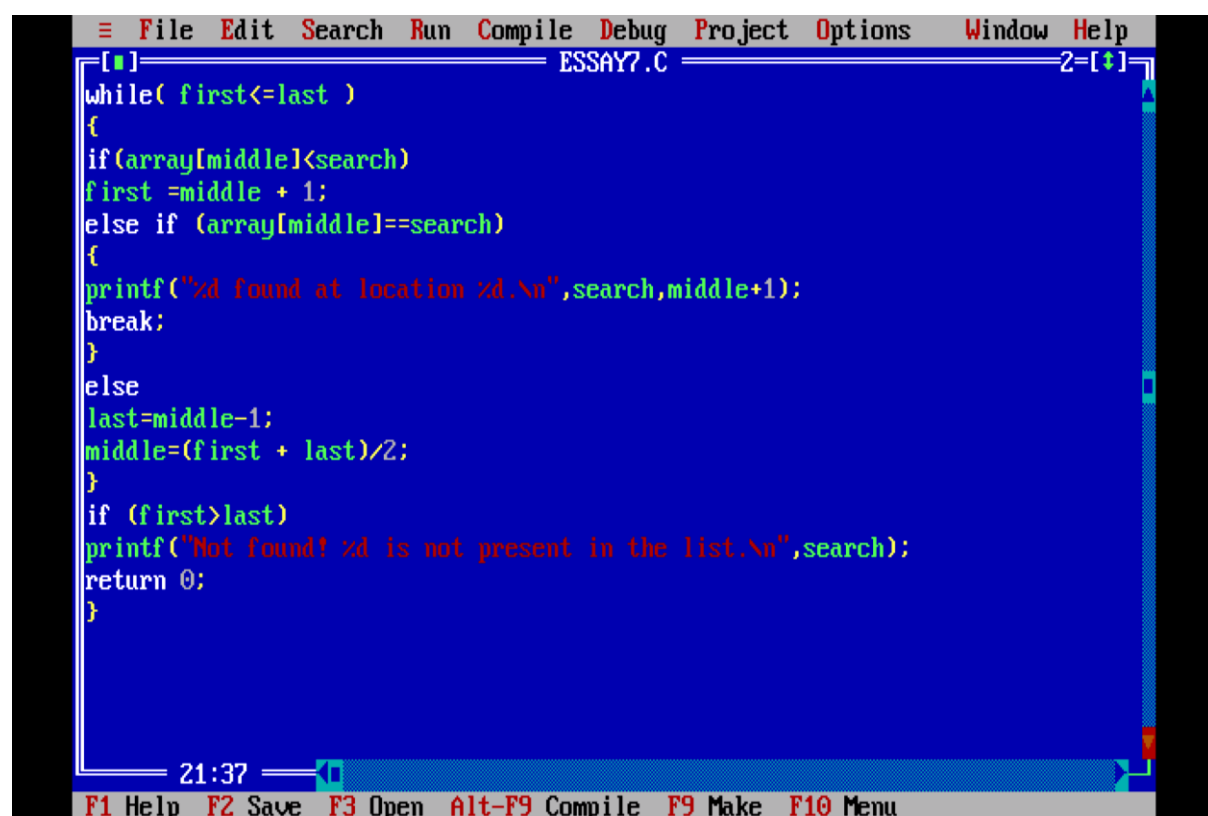
INPUT:



```
File Edit Search Run Compile Debug Project Options Window Help
[.] ESSAY7.C 2=[+]
```

```
#include<stdio.h>
int main()
{
int c,first,last,middle,n,search,array[100];
printf("Enter number of elements\n");
scanf("%d",&n);
printf("Enter %d integers\n",n);
for (c=0;c<n;c++)
scanf("%d",&array[c]);
printf("Enter value to find\n");
scanf("%d",&search);
first = 0;
last = n-1;
middle = (first+last)/2;
while( first<=last )
{
if(array[middle]<search)
first =middle + 1;
else if (array[middle]==search)
{
printf("%d found at location %d.\n",search,middle+1);
1:1
```

F1 Help F2 Save F3 Open Alt-F9 Compile F9 Make F10 Menu



```
File Edit Search Run Compile Debug Project Options Window Help
[.] ESSAY7.C 2=[+]
```

```
while( first<=last )
{
if(array[middle]<search)
first =middle + 1;
else if (array[middle]==search)
{
printf("%d found at location %d.\n",search,middle+1);
break;
}
else
last=middle-1;
middle=(first + last)/2;
}
if (first>last)
printf("Not found! %d is not present in the list.\n",search);
return 0;
}
21:37
```

F1 Help F2 Save F3 Open Alt-F9 Compile F9 Make F10 Menu

OUTPUT:

```
16
18
27
16
23
21
19
Enter value to find
23
Not found! 23 is not present in the list.
Enter number of elements
7
Enter 7 integers
16
18
19
20
21
23
22
Enter value to find
23
23 found at location 6.
Enter number of elements
```