Write a C program to search a number using Binary Search method

```
#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);
    break;
  }
  else
    last = middle - 1;
```

```
  middle = (first + last)/2;
}
if (first > last)
  printf("Not found! %d isn't present in the list.\n", search);

  return 0;
}
```

```
Enter number of elements
3
Enter 3 integers
1
5
9
Enter value to find
4
Not found! 4 isn't present in the list.


...Program finished with exit code 0
Press ENTER to exit console.
```