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

```c
#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;
```
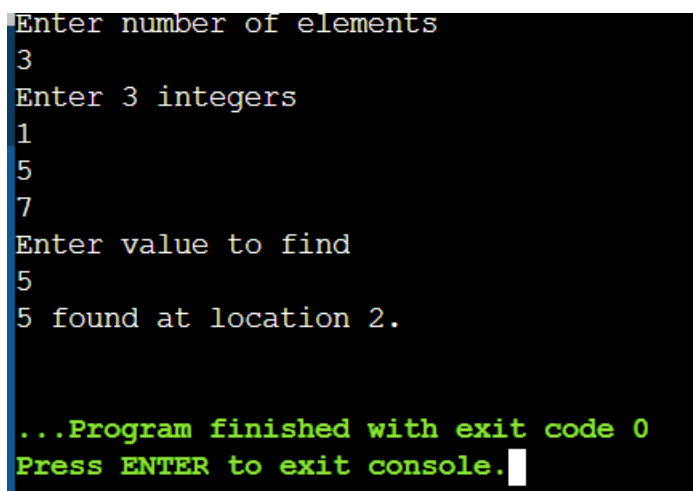
```c
      middle = (first + last)/2;

   }

  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
7
Enter value to find
5
5 found at location 2.


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