

```
#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]);

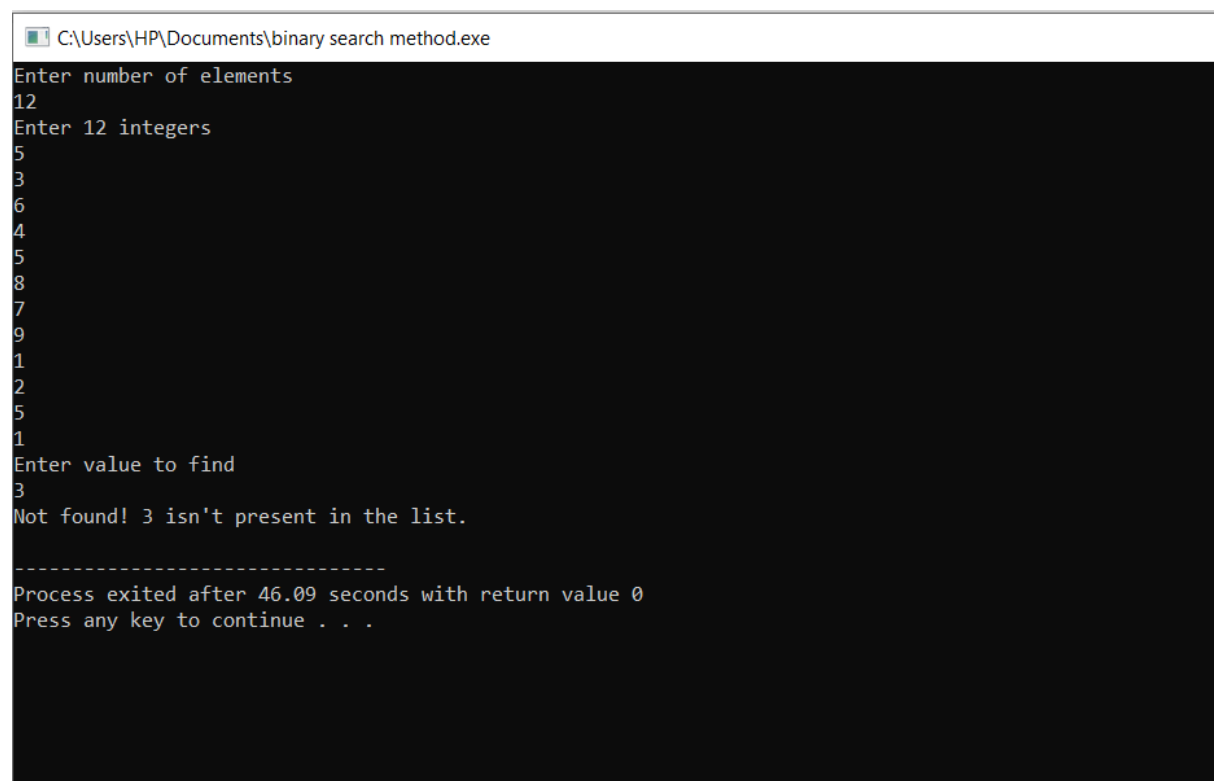
    printf("Enter value to find\n");
    scanf("%d", &search);

    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;  
}
```



The screenshot shows a Windows command prompt window titled "C:\Users\HP\Documents\binary search method.exe". The program prompts the user to "Enter number of elements", and the user enters "12". It then prompts "Enter 12 integers", and the user enters a list of numbers: 5, 3, 6, 4, 5, 8, 7, 9, 1, 2, 5, 1. Next, it prompts "Enter value to find", and the user enters "3". The program outputs "Not found! 3 isn't present in the list." followed by a separator line "-----". At the bottom, it displays "Process exited after 46.09 seconds with return value 0" and "Press any key to continue . . .".

```
C:\Users\HP\Documents\binary search method.exe  
Enter number of elements  
12  
Enter 12 integers  
5  
3  
6  
4  
5  
8  
7  
9  
1  
2  
5  
1  
Enter value to find  
3  
Not found! 3 isn't present in the list.  
-----  
Process exited after 46.09 seconds with return value 0  
Press any key to continue . . .
```