**35.{**

**36. printf("\nelement is found at %d times",count);time++;**

**37. }**

**38.else**

**39. {**

**40. printf("element is not found");time++;**

**}**

**41. printf("\nspace complexity %d",(4\*4)+4\*n);time+2;**

**42. printf("\ntime complexity %d",time);**

**43. return 0;**

**}**

**PROGRAM FOR LINEAR SEARCH**

1. #include<stdio.h>

2. int main()

3. {

4. int n,i,x,count=0,time;

5. time++;

6. printf("enter th size of the array: ");

7. time++;

8. scanf("%d",&n);

9. time++;

10. int a[n];

11. printf("enter the elements of the array: ");

12. time++;

13. for (i=0;i<n;i++)

14. {

15. time++;

16. scanf("%d",&a[i]);time++;

17. }

18. time++;

19. printf("enter the element to search: \n");

20. time++;

21. scanf("%d",&x);

22. time++;

23. for(i=0;i <n;i++)

24 .. {

25. time++;

26. if(a[i]==x)

27. {

28. time++;

29. count++;

30. printf("\nelement is at %d",i+1);time++;

31. }

32. }

33. if(count>0)

34. {