```cpp
     using namespace std;

 5
 6
 7  int recSearch(int arr[], int l,
 8              int r, int x)
 9  {
10      if (r < l)
11          return -1;
12      if (arr[l] == x)
13          return l;
14      if (arr[r] == x)
15          return r;
16      return recSearch(arr, l + 1,
17                      r - 1, x);
18  }
19
20
21  int main()
22  {
23      int arr[] = {12, 34, 54, 2, 3}, i;
24      int n = sizeof(arr) / sizeof(arr[0]);
25      int x = 3;
```

input

```
Element 3 is present at index 4

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

```cpp
    for (int i=0; i<j; i++)
        arr[i] = temp[i];

    return j;
}

int main()
{
    int arr[] = {1, 2, 2, 3, 4, 4, 4, 5, 5};
    int n = sizeof(arr) / sizeof(arr[0]);


    n = removeDuplicates(arr, n);


    for (int i=0; i<n; i++)
    cout << arr[i] << " ";
```

input

```
1 2 3 4 5


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

2

```cpp
        while (n > 0) {

            binaryNum[i] = n % 2;
            n = n / 2;
            i++;
        }


    for (int j = i - 1; j >= 0; j--)
        cout << binaryNum[j];
}


int main()
{
    int n = 17;
    decToBinary(n);
    return 0;
}
```

input

```
10001

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

```cpp
    while (h > l)
    {
        if (str[l++] != str[h--])
        {
            printf("%s is Not Palindrome", str);
            return;
        }
    }
    printf("%s is palindrome", str);
}


int main()
{
    isPalindrome("yadav");
    isPalindrome("\nji");
    isPalindrome("\nrocks");
    return 0;
}
```

input

```
yadav is Not Palindrome
ji is Not Palindrome
rocks is Not Palindrome

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

```cpp
#include <stdio.h>
int main()
{

    char s1[] = "baap baap hota hai", s2[100], i;


    printf("string s1 : %s\n", s1);


    for (i = 0; s1[i] != '\0'; ++i) {

        s2[i] = s1[i];
    }

    s2[i] = '\0';


    printf("String s2 : %s", s2);

    return 0;
```

input

```
string s1 : baap baap hota hai
String s2 : baap baap hota hai

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