22 June

**C Program to find the largest palindrome in the array.**

#include<stdio.h>

int check\_palindrome(int n)

{

int div = 1;

while (n / div >= 10)

div \*= 10;

while (n != 0)

{

int first = n / div;

int last = n % 10;

// If first and last digits are not same then return false

if (first != last)

return -1;

// Removing the leading and trailing digits from the number

n = (n % div) / 10;

// Reducing divisor by a factor of 2 as 2 digits are dropped

div = div / 100;

}

return 1;

}

int large\_palindrome(int A[], int n)

{

int i;

// Sort the array

for(int i=0; i<=n; i++)

{

for(int j=i; j<= n; j++)

{

if(A[i] >A [j])

{

int temp = A[i];

A[i] = A[j];

A[j] = temp;

}

}

}

for(int i=0; i<n; i++)

{

printf("%d ", A[i]);

}

for (i=n-1; i >= 0; i--)

{

if (check\_palindrome(A[i]) == 1)

return A[i];

}

return -1;

}

int main()

{

int a[15], n, i;

printf("Enter the number of entries: \n");

scanf("%d", &n);

printf("Enter the elements: \n");

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

scanf("%d", &a[i]);

printf("\n Largest Palindrome: %d", large\_palindrome(a, n));

return 0;

}