26 June

**C Program to find the absolute sum of elements.**

#include<stdio.h>

#include<stdlib.h>

int min(int a, int b)

{

if(a>b)

return b;

else

return a;

}

// Function to find absolute sum

int abs\_sum(int arr[], int n)

{

int sum = 0;

sum += abs(arr[0] - arr[1]);

sum += abs(arr[n-1] - arr[n-2]);

for (int i=1; i<n-1; i++)

sum += min(abs(arr[i] - arr[i-1]), abs(arr[i] - arr[i+1])); // Total sum of absolute difference

return sum;

}

// Function to sort the elements

void sort(int a[], int n)

{

for(int i = 0; i < n-1; i++)

{

for(int j = 0; j < n-i-1; j++)

{

if (a[j] > a[j+1])

{

int temp = a[j];

a[j] = a[j+1];

a[j+1] = temp;

}}}}

int main()

{

int a[20], n, i;

printf("Enter the number of elements: ");

scanf("%d", &n);

printf("Enter the elements: ");

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

{

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

}

sort(a, n);

printf("The minimum sum of absolute is %d",abs\_sum(a, n));

return 0;

}