c program to find the maximum element and index in the array

#include <stdio.h>

int main() {

int n;

printf("Enter the size of the array: ");

scanf("%d", &n);

if (n <= 0) {

printf("Error: Please enter a positive size for the array.\n");

return 1;

}

int arr[n];

printf("Enter %d elements in the array:\n", n);

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

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

}

int maxElement = arr[0];

int maxIndex = 0;

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

if (arr[i] > maxElement) {

maxElement = arr[i];

maxIndex = i;

}

}

printf("Maximum element in the array is: %d\n", maxElement);

printf("Index of the maximum element is: %d\n", maxIndex);

return 0;

}