

Maximum and minimum of an array using minimum number of comparisons

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#include <stdio.h>

// Function to reverse the array
void reverseArray(int arr[], int n) {
    int start = 0; // Initialize the start index
    int end = n - 1; // Initialize the end index
    while (start < end) {
        int temp = arr[start]; // Store the current start element
        arr[start] = arr[end]; // Swap with the end element
        arr[end] = temp; // Place the stored element in the end position
        start++; // Move forward
        end--; // Move backward
    }
}

int main() {
    int n;

    printf("Enter the number of elements: ");
    scanf("%d", &n);

    int arr[n];

    printf("Enter %d elements: ", n);
    for (int i = 0; i < n; i++) {
```

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    scanf("%d", &arr[i]);  
}  
  
// Print the original array  
printf("Original Array: ");  
for (int i = 0; i < n; i++) {  
    printf("%d ", arr[i]); // Loop through each element and print it  
}  
printf("\n");  
  
// Function to reverse the array  
reverseArray(arr, n);  
  
printf("Reversed Array: ");  
for (int i = 0; i < n; i++) {  
    printf("%d ", arr[i]);  
}  
printf("\n");  
  
return 0;  
}
```