//Maximum and minimum of an array using minimum number of comparisons.

/*Given an array of size N. The task is to find the maximum and the minimum element of the array using the minimum number of comparisons.

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Examples:
Input: arr[] = \{3, 5, 4, 1, 9\}
Output: Minimum element is: 1
         Maximum element is: 9
Input: arr[] = {22, 14, 8, 17, 35, 3}
Output: Minimum element is: 3
         Maximum element is: 35*/
Code:
#include <stdio.h>
int main() {
  int n;
  printf("Enter the number of elements in the array: ");
  scanf("%d", &n);
  int arr[n];
  printf("Enter the elements of the array: ");
  for (int i = 0; i < n; i++) {
     scanf("%d", &arr[i]);
  }
  int min = arr[0];
  int max = arr[0];
  for (int i = 1; i < n; i++) {
```

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if (arr[i] < min) {
    min = arr[i];
}
if (arr[i] > max) {
    max = arr[i];
}

printf("Minimum element is %d\n", min);
printf("Maximum element is %d\n", max);

return 0;
```

}