Problem:1

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.

```
Ans:
Code:
#include <stdio.h>
void find_min_max(int arr[], int size, int *min, int *max) {
  if (size <= 0) return;
  *min = *max = arr[0];
  for (int i = 1; i < size; i++) {
    if (arr[i] < *min) *min = arr[i];</pre>
    if (arr[i] > *max) *max = arr[i];
 }
}
int main() {
  int array[] = \{3, 1, 4, 1, 5, 9, 2\};
  int size = sizeof(array) / sizeof(array[0]);
  int min, max;
 find_min_max(array, size, &min, &max);
 printf("Minimum: %d\n", min);
  printf("Maximum: %d\n", max);
  return 0;
}
```