

### **Problem 6: Max and min in an unsorted array**

In this problem, we first initialize max as -infinity and min as infinity. We traverse through the array and change max if we find number which is greater than current max. Similarly update min if we find a number smaller than current min.

**Time complexity:**

$O(n)$ : We are traversing the array once.

**Space complexity:**

$O(1)$ : Only 2 values are stored at a time.