

6- Max-Min unsorted

We will use set to make the list unduplicated.

We start min and max with the first element in the list. Then loop to compare the element with min and max. If it is smaller than min so we put it in min variable and if the element larger than the max so we store it in max variable.

Time complexity: As the question mention it requires $O(n)$ where n the length of the list.

Space Complexity:

We don't need extra space so it is $O(1)$