Problem statement:

Find the length of the Longest Non-decreasing Subsequence in a given Sequence.

Eg:

Input:9

Sequence:[-1,3,4,5,2,2,2,2,3]

the subsequence is [-1,2,2,2,2,3]

Output:6

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>

int max(int a, int b) {
    return (a > b) ? a : b;
}

int main() {
    int n;
    scanf("%d", &n);
    int arr[n];
    for(int i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }
    int dp[n];
    for(int i = 0; i < n; i++) dp[i] = 1;

    for(int i = 1; i < n; i++) {
        for(int j = 0; j < i; j++) {
            if(arr[j] <= arr[i]) {
                dp[i] = max(dp[i], dp[j] + 1);
            }
        }
    }

    int ans = 0;
    for(int i = 0; i < n; i++) {
        if(dp[i] > ans) ans = dp[i];
    }

    printf("%d\n", ans);
    return 0;
}
```

	Input	Expected	Got	
✔	9	6	6	✔
	-1 3 4 5 2 2 2 2 3			
✔	7	6	6	✔
	1 2 2 4 5 7 6			

Passed all tests! ✔