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 main()
{
    int n,a[100],dp[100],i,j,max=0;
    scanf("%d",&n);
    for(i=0;i<n;i++)
        scanf("%d",&a[i]);
    for(i=0;i<n;i++)
        dp[i]=1;
    for(i=1;i<n;i++)
    {
        for(j=0;j<i;j++)
        {
            if(a[i]>=a[j]&&dp[i]<dp[j]+1)
                dp[i]=dp[j]+1;
        }
    }
    for(i=0;i<n;i++)
        if(dp[i]>max)
            max=dp[i];
    printf("%d",max);

}
```

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

Passed all tests! ✔

Correct