

# LIS

```
def lis(seq):
    n = len(seq)
    DP = [1] * n
    prev = [-1] * n

    ans = 0
    for i in range(n):
        for j in range(i):
            if seq[j] < seq[i] and DP[i] < DP[j] + 1:
                DP[i] = DP[j] + 1
                prev[i] = j
        if DP[ans] < DP[i]:
            ans = i

    return max(DP)

N = int(input())
A = list(map(int, input().split()))

print(lis(A))
```

 **sphere online judge**

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ID	DATE	USER	PROBLEM	RESULT	TIME	MEM	LANG
33621107	2024-10-13 21:15:34	buenos aires	Easy Longest Increasing Subsequence	<b>accepted</b> edit ideone it	0.36	9.7M	PYTHON3