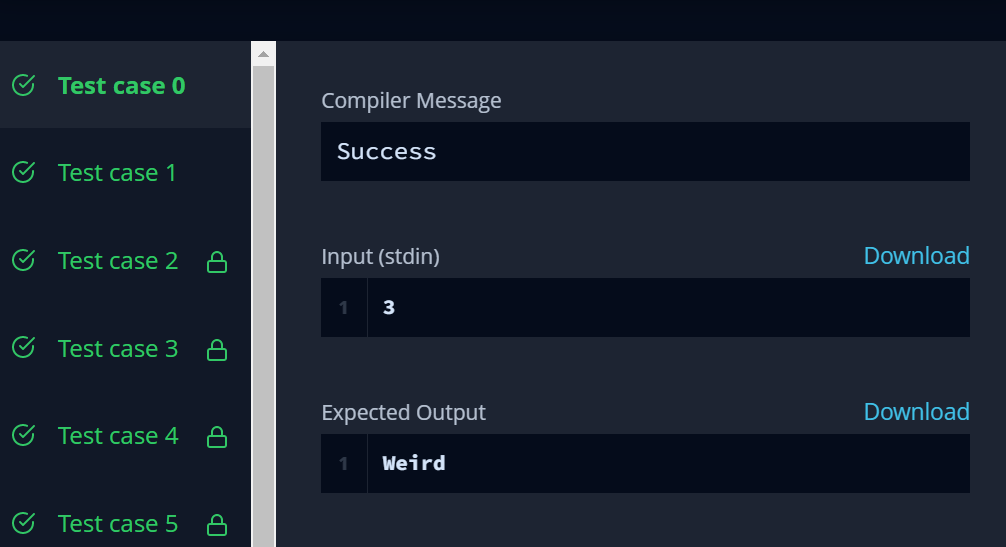
OUTPUT OF THE PROBLEM:

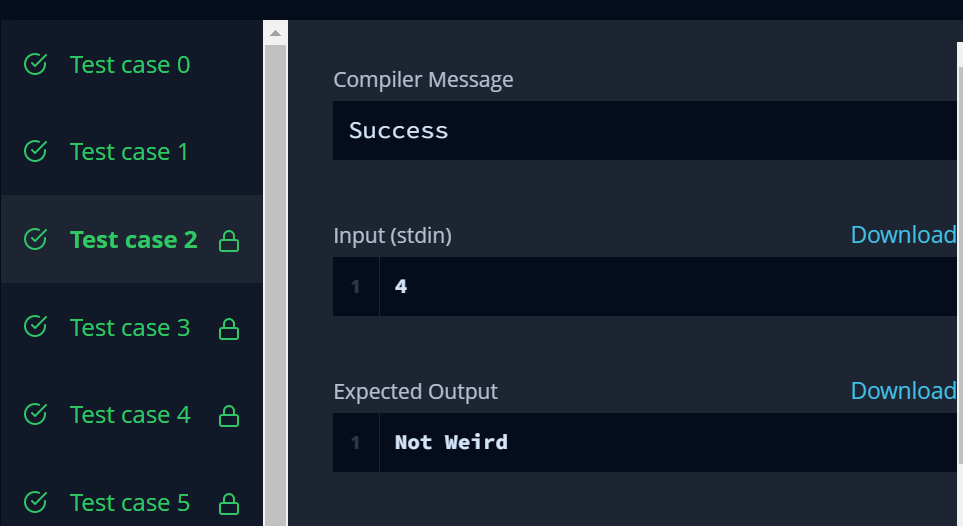
For sample case 0 :



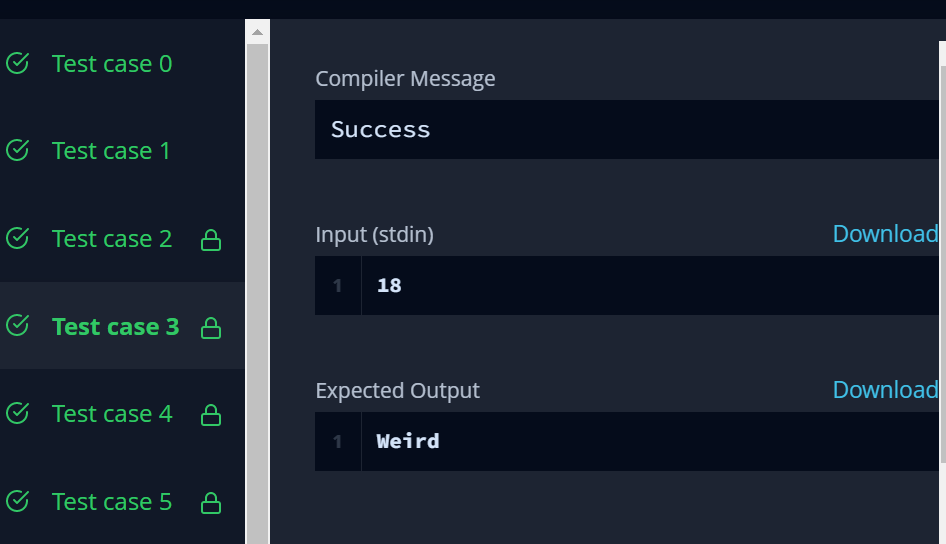
For sample case 1:



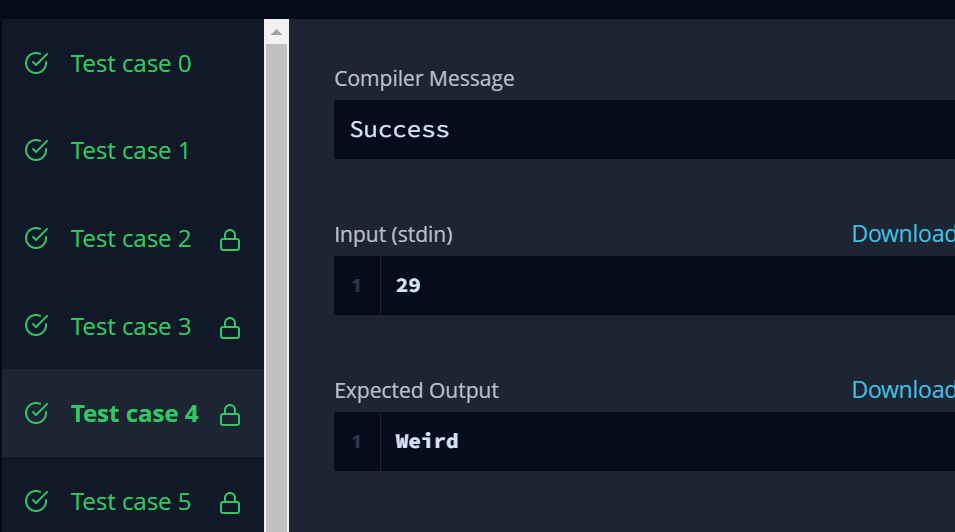
For sample case 2:



For sample case 3:



For sample case 4:



For sample case 5 :

