Online Contests Solutions

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## Chapter 1

## **HackerRank**

## 1.1 New Year Chaos

You can find the question in this link.

We define  $index_i$  as the current index for person i. For example if we have 1,2,3,4 and 4 bribes 3, the queue looks like 1,2,4,3. So  $index_4=3$ . Since no body can bribe more than 2 times,  $index_i \geq i-2$  for  $1 \leq i \leq n$ . Consider person n. No body can bribe that person. So  $n-2 \leq index_n \leq n$ . After we retruned that person to his actual place we can consider n-1. So we have  $n-3 \leq index_{n-1} \leq n-1$  (note that at this moment  $index_n=n$ ).

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