AQ6.2: Activity Question 2 - Not Graded

**This assignment will not be graded and is only for practice.**

**Note : This activity is only for practice purpose and it will not be counted towards the Final score**

There are n*n* cards of runs scored by a player in n matches. We want to arrange these cards in increasing order in such a way that lowest score card will be on the top. We perform sorting process in such a way that we pick a card from pile 1 and place in pile 2 after finding its correct position. Same method is followed as explained in the lecture. Answer the following questions.

***1 point***

While sorting, how many cards from pile 1 need to go through the process of finding the correct position in Pile 2?

n−1*n*−1

n*n*

n+1*n*+1

data is insufficient

***1 point***

In insertion sort, maximum how many numbers of comparisons will be performed?

n(n−1)/2*n*(*n*−1)/2

n(n+1)/2*n*(*n*+1)/2

n(n−1)!*n*(*n*−1)!

n(n+1)!*n*(*n*+1)!

***1 point***

In lecture while sorting, insertion of a new card from pile 1 to pile 2 is done by comparing from top. At some intermediate stage of sorting we decided to perform the process of comparison from bottom. Will this method give incorrect result?

Yes

No