AQ2.7: Activity Questions 7 - Not Graded

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

Let**maxMarks** be a variable that keeps track of the maximum *total marks* in the “Scores” dataset. Let **maxCard** be a variable that tracks the index of the card which has the maximum *total marks*. We write a procedure similar to the one given in the lecture to determine the maximum *total marks* and the index of the card corresponding to it.

***1 point***

If **maxMarks** is updated n*n* times during the execution, how many times is the variable **maxCard** updated? Assume that no two cards have the same total marks.

n−1*n*−1

n*n*

n+1*n*+1

***1 point***

Let there be N*N* cards in the pile. Assume that the pile is arranged in the ascending order of *total marks*, so that the *total marks* in any given card is always less than the *total marks* in the card immediately below it. Assume that no two cards have the same *total marks*. How many times will the variable **maxCard** be updated if we execute the above program?

N22*N*​

N−1*N*−1

N*N*

N+1*N*+1

***1 point***

Based on the answers from the above questions, what is the correct relationship between n*n* and N*N*?

N=n*N*=*n*

N≤n*N*≤*n*

n≤N*n*≤*N*

We cannot reach any conclusion.

Consider the following procedure that iterates through the “Paragraph Words” dataset:  
 A white and black text

AI-generated content may be incorrect.

***1 point***

What is the above procedure trying to compute?

It computes the number of times the word “was” occurs in the paragraph

It computes the number of times the phrase “it was” occurs in the paragraph.

It computes the number of times the word “it” occurs in the paragraph.