Charles Norden

2021, Feb 11

## PROBLEM 1:

This is a test paragraph, whose sole purpose is to fill in the blank. In this paragraph I am including a mathematical expression embedded inline:  $x^2 = y^2 + z^2$ .

This is the above mathematical expression:

$$x^2 = y^2 + z^2$$

In this section, we are going to try a few other math expressions. First is the Sum expression:

$$\sum_{N=0}^{\infty} 2^{-N} = 1$$

## PROBLEM 2:

In this section, we are going to try a few other math expressions. First is the Sum expression:

$$\sum_{N=0}^{\infty} 2^{-N} = 1$$

Let's say we have an algorithm with a linear time complexity: O(N).

Let's say we also have an algorithm with time complexity: O(NlogN).