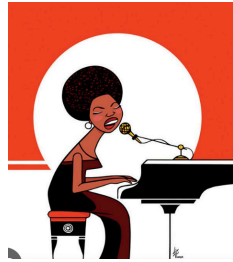


## Problem of the Week #11

### Nina Simone: Seats at Carnegie Hall



Nina Simone  
was a legendary singer,  
songwriter and pianist.  
She performed to a sold-out  
show at Carnegie Hall in 1963.

### How many people attended her concert?

#### Clues:

- Carnegie Hall has different areas for seating.
- The **1st Tier Box** has 5 groups of 50 seats. The **2nd Tier Box** has the same number of seats.
- The **Dress Circle** seats 70 less than the total number of seats in the two Tier Boxes.
- The number of seats in the **Balcony** is 91 less than all the seats in the two tier boxes and the seats in the Dress Circle combined.
- The number of seats in the **Orchestra** is a 4-digit odd number made with the digits: 0,1,1,2. The first and last digits are the same. Then tens digit is twice as much as the ones digit.

**Show your work below or use the template on the back.**

Name: \_\_\_\_\_ Class: \_\_\_\_\_

First and last name, please

**Due: Feb. 12, 2026 (Thursday)**

**Show your work below (or on the back)**

<b>1st Tier box</b>		
<b>2nd Tier box</b>		
<b>Dress Circle</b>		
<b>Balcony</b>		
<b>Orchestra</b>		
<b>Total</b>		

Name: \_\_\_\_\_ Class: \_\_\_\_\_

First and last name, please

**Due: Feb. 12, 2026 (Thursday)**