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## **Word Document Section: Terminal Output Demonstration**

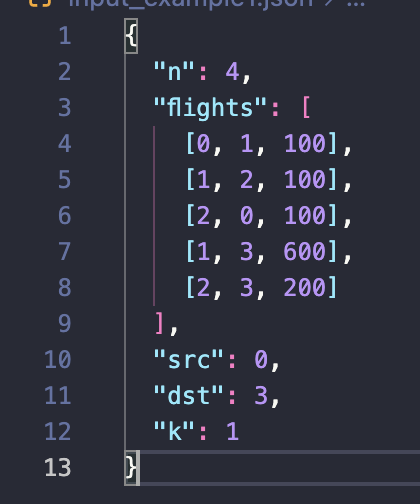
### **Running the Application and Observing Output**

This section demonstrates running the app.py console application with various input scenarios by passing different JSON input files as command-line arguments. The application's output, including the input parameters and the calculated cheapest price, is displayed directly in the terminal.

#### **1. Test Case: Example 1**

This test case uses input\_example1.json as input.

**Input File Content (input\_example1.json):**



**Terminal Command and Output:**



**Description:** For input\_example1.json (n=4, flights=[[0,1,100],[1,2,100],[2,0,100],[1,3,600],[2,3,200]], src=0, dst=3, k=1), the application correctly calculates the cheapest price as **700**.

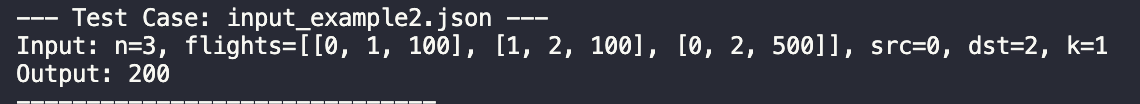
#### **2. Test Case: Example 2**

This test case uses input\_example2.json as input.

**Input File Content (input\_example2.json):**



**Terminal Command and Output:**

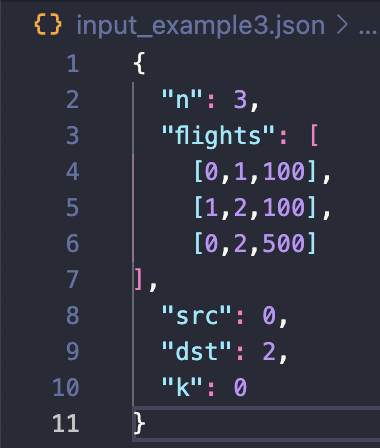


**Description:** For input\_example2.json (n=3, flights=[[0,1,100],[1,2,100],[0,2,500]], src=0, dst=2, k=1), the application correctly calculates the cheapest price as **200**. This corresponds to the path 0 -> 1 -> 2.

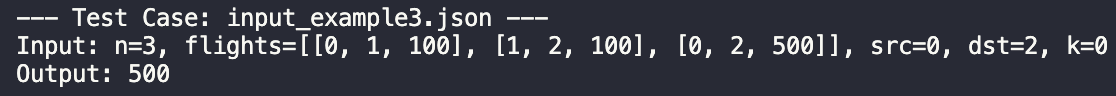
#### **3. Test Case: Example 3**

This test case uses input\_example3.json as input.

**Input File Content (input\_example3.json):**



**Terminal Command and Output:**



**Description:** For input\_example3.json (n=3, flights=[[0,1,100],[1,2,100],[0,2,500]], src=0, dst=2, k=0), the application correctly calculates the cheapest price as **500**. This corresponds to the direct path 0 -> 2.