

Output of sudoo.csv

Zoom in to see input and output clearly

The screenshot displays a Jupyter Notebook environment. On the left, a file explorer shows a directory structure with 'sample_data' containing 'sudoo.csv' and 'sudoo1.csv'. The main area is a code editor with the following Python code:

```
117 for i in mat1:
118     blank.append(list(i))
119 blank1 = []
120 for i in mat2:
121     blank1.append(list(i))
122 print("problem")
123 for item in blank:
124     print(item)
125 print(" ")
126 for item in blank1:
127     print(item)
128 solve_pair(blank, blank1)
```

The output area shows the execution results:

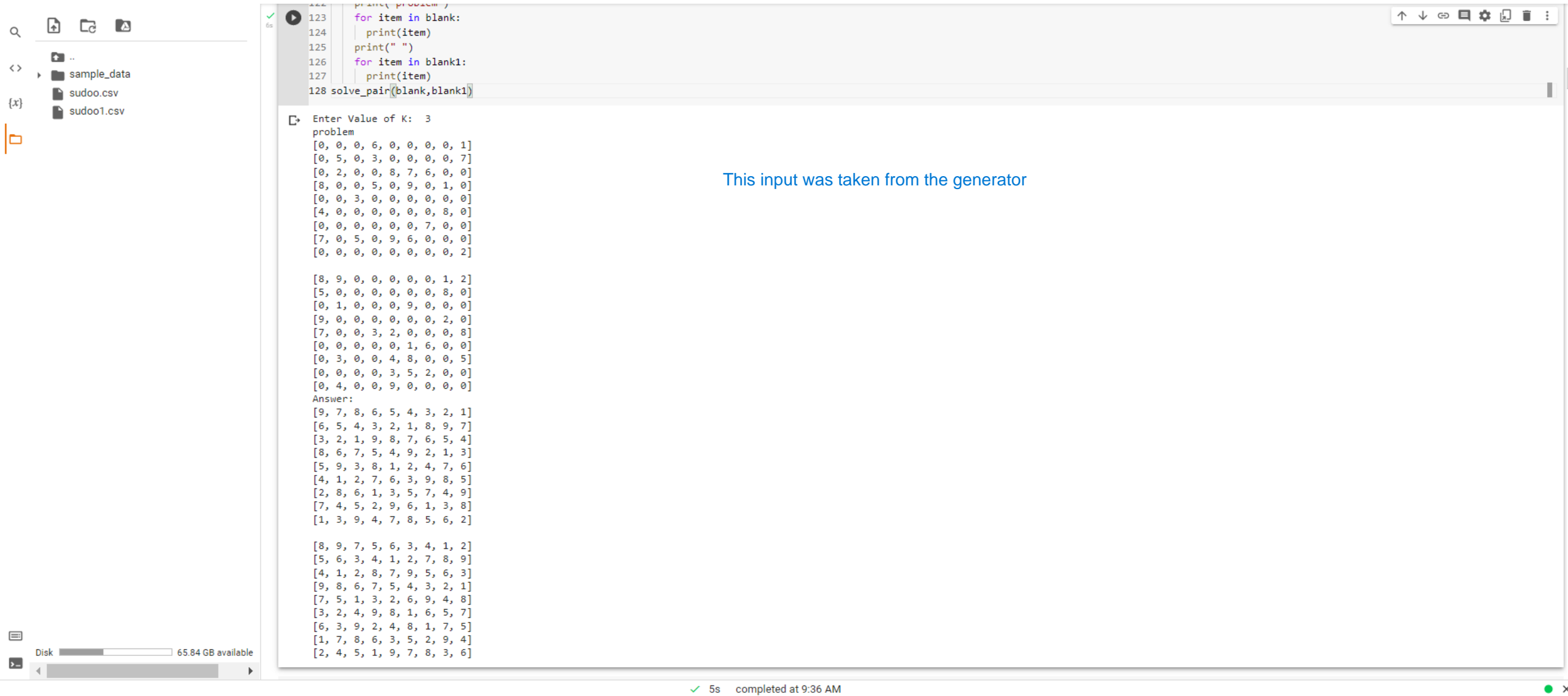
```
Enter Value of K: 2
problem
[0, 0, 0, 0]
[0, 0, 0, 0]
[0, 0, 0, 0]
[0, 0, 0, 0]

[0, 0, 0, 0]
[0, 0, 0, 0]
[0, 0, 0, 0]
[0, 0, 0, 0]
Answer:
[4, 3, 2, 1]
[2, 1, 4, 3]
[3, 4, 1, 2]
[1, 2, 3, 4]

[3, 4, 1, 2]
[1, 2, 3, 4]
[4, 3, 2, 1]
[2, 1, 4, 3]
```

At the bottom, a status bar indicates 'Disk 65.84 GB available' and a completion message: '✓ 4s completed at 9:33 AM'.

Output of Sudoo1.csv



The screenshot shows a Jupyter Notebook environment. On the left is a file explorer with a search bar and icons for file operations. It contains a folder named 'sample_data' and two files: 'sudoo.csv' and 'sudoo1.csv'. The main area displays a Python script with the following code:

```
122 print(problem)
123 for item in blank:
124     print(item)
125     print(" ")
126 for item in blank1:
127     print(item)
128 solve_pair(blank,blank1)
```

Below the code, the output is shown. It starts with a prompt 'Enter Value of K: 3' and then displays the 'problem' as a list of 10 rows, each with 10 numbers. This is followed by the 'Answer:' section, which displays 10 rows of 10 numbers each. The output is as follows:

```
Enter Value of K: 3
problem
[0, 0, 0, 6, 0, 0, 0, 0, 1]
[0, 5, 0, 3, 0, 0, 0, 0, 7]
[0, 2, 0, 0, 8, 7, 6, 0, 0]
[8, 0, 0, 5, 0, 9, 0, 1, 0]
[0, 0, 3, 0, 0, 0, 0, 0, 0]
[4, 0, 0, 0, 0, 0, 0, 8, 0]
[0, 0, 0, 0, 0, 0, 7, 0, 0]
[7, 0, 5, 0, 9, 6, 0, 0, 0]
[0, 0, 0, 0, 0, 0, 0, 0, 2]

[8, 9, 0, 0, 0, 0, 0, 1, 2]
[5, 0, 0, 0, 0, 0, 0, 8, 0]
[0, 1, 0, 0, 0, 9, 0, 0, 0]
[9, 0, 0, 0, 0, 0, 0, 2, 0]
[7, 0, 0, 3, 2, 0, 0, 0, 8]
[0, 0, 0, 0, 0, 1, 6, 0, 0]
[0, 3, 0, 0, 4, 8, 0, 0, 5]
[0, 0, 0, 0, 3, 5, 2, 0, 0]
[0, 4, 0, 0, 9, 0, 0, 0, 0]

Answer:
[9, 7, 8, 6, 5, 4, 3, 2, 1]
[6, 5, 4, 3, 2, 1, 8, 9, 7]
[3, 2, 1, 9, 8, 7, 6, 5, 4]
[8, 6, 7, 5, 4, 9, 2, 1, 3]
[5, 9, 3, 8, 1, 2, 4, 7, 6]
[4, 1, 2, 7, 6, 3, 9, 8, 5]
[2, 8, 6, 1, 3, 5, 7, 4, 9]
[7, 4, 5, 2, 9, 6, 1, 3, 8]
[1, 3, 9, 4, 7, 8, 5, 6, 2]

[8, 9, 7, 5, 6, 3, 4, 1, 2]
[5, 6, 3, 4, 1, 2, 7, 8, 9]
[4, 1, 2, 8, 7, 9, 5, 6, 3]
[9, 8, 6, 7, 5, 4, 3, 2, 1]
[7, 5, 1, 3, 2, 6, 9, 4, 8]
[3, 2, 4, 9, 8, 1, 6, 5, 7]
[6, 3, 9, 2, 4, 8, 1, 7, 5]
[1, 7, 8, 6, 3, 5, 2, 9, 4]
[2, 4, 5, 1, 9, 7, 8, 3, 6]
```

At the bottom of the notebook, a status bar indicates '5s completed at 9:36 AM'. A blue text annotation 'This input was taken from the generator' is placed over the output area.

Output of sudoo2.csv

Files

sample_data

sudoo.csv

sudoo1.csv

sudoo2.csv

122 print("problem")

123 for item in blank:

124 | print(item)

125 print(" ")

126 for item in blank1:

127 | print(item)

128 solve_pair(blank,blank1)

Enter Value of K: 3

problem

[0, 0, 0, 6, 5, 4, 3, 0, 0]

[0, 5, 0, 0, 0, 0, 0, 0, 7]

[0, 0, 0, 9, 0, 0, 6, 0, 0]

[0, 0, 6, 0, 4, 0, 0, 0, 0]

[7, 0, 0, 0, 0, 3, 0, 8, 0]

[0, 1, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 3, 0, 0, 4, 0]

[0, 7, 0, 5, 0, 2, 0, 0, 0]

[0, 3, 0, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 1, 0]

[7, 0, 0, 0, 0, 3, 0, 0, 0]

[0, 0, 0, 8, 9, 6, 0, 0, 0]

[9, 0, 0, 0, 5, 4, 0, 0, 0]

[0, 5, 4, 3, 0, 0, 0, 0, 7]

[0, 0, 0, 0, 0, 0, 0, 6, 0]

[1, 0, 8, 0, 7, 0, 0, 0, 6]

[0, 6, 0, 0, 0, 9, 0, 7, 0]

[0, 0, 0, 0, 0, 0, 0, 3, 2]

Answer:

[9, 8, 7, 6, 5, 4, 3, 2, 1]

[6, 5, 4, 3, 2, 1, 8, 9, 7]

[3, 2, 1, 9, 8, 7, 6, 5, 4]

[8, 9, 6, 7, 4, 5, 2, 1, 3]

[7, 4, 5, 2, 1, 3, 9, 8, 6]

[2, 1, 3, 8, 9, 6, 4, 7, 5]

[5, 6, 9, 1, 3, 8, 7, 4, 2]

[4, 7, 8, 5, 6, 2, 1, 3, 9]

[1, 3, 2, 4, 7, 9, 5, 6, 8]

[8, 9, 6, 7, 4, 5, 2, 1, 3]

[7, 4, 5, 2, 1, 3, 6, 8, 9]

[2, 1, 3, 8, 9, 6, 7, 4, 5]

[9, 8, 7, 6, 5, 4, 3, 2, 1]

[6, 5, 4, 3, 2, 1, 8, 9, 7]

[3, 2, 1, 9, 8, 7, 5, 6, 4]

[1, 3, 8, 4, 7, 2, 9, 5, 6]

[5, 6, 2, 1, 3, 9, 4, 7, 8]

[4, 7, 9, 5, 6, 8, 1, 3, 2]

sudoo2.csv

1 to 10 of 17 entries

Filter

0	0	0	6	5	4	3	0	0
0	5	0	0	0	0	0	0	7
0	0	0	9	0	0	6	0	0
0	0	6	0	4	0	0	0	0
7	0	0	0	0	3	0	8	0
0	1	0	0	0	0	0	0	0
0	0	0	0	3	0	0	4	0
0	7	0	5	0	2	0	0	0
0	3	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	0
7	0	0	0	0	3	0	0	0


Show 10 per page

1 2

This input was also taken from generator

Disk 65.84 GB available

Output of sudoo3.csv

 Sudoku ☆

File Edit View Insert Runtime Tools Help

Files

sample_data

sudoo.csv

sudoo1.csv

sudoo2.csv

sudoo3.csv

+ Code + Text

```
119 blank1 = []
120 for i in mat2:
121     blank1.append(list(i))
122 print("problem")
123 for item in blank:
124     print(item)
125 print(" ")
126 for item in blank1:
127     print(item)
128 solve_pair(blank,blank1)
```

Enter Value of K: 3

problem

[9, 0, 8, 6, 0, 0, 0, 2, 0]

[0, 0, 0, 0, 2, 1, 9, 0, 0]

[0, 2, 0, 0, 7, 0, 0, 0, 0]

[0, 0, 6, 0, 0, 0, 0, 0, 2]

[0, 0, 5, 0, 0, 6, 7, 0, 0]

[0, 0, 3, 0, 4, 0, 0, 0, 0]

[0, 0, 9, 0, 0, 0, 1, 0, 7]

[0, 0, 7, 0, 3, 0, 0, 0, 9]

[0, 0, 0, 8, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 6, 3, 4, 0, 0]

[0, 6, 0, 4, 0, 0, 0, 9, 7]

[0, 0, 0, 8, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 0, 0, 0, 1]

[0, 0, 0, 0, 0, 8, 0, 0, 4]

[1, 2, 0, 0, 0, 0, 0, 0, 0]



[6, 7, 8, 0, 0, 0, 0, 0, 0]

[0, 0, 0, 0, 0, 9, 0, 0, 5]

[1, 0, 0, 6, 7, 0, 0, 3, 0]

Answer:

No solution

RAM  Disk 

Editing

sudoo3.csv

1 to 17 of 17 entries Filter

9	0	8	6	0	0	0	2	0
0	0	0	0	2	1	9	0	0
0	2	0	0	7	0	0	0	0
0	0	6	0	0	0	0	0	2
0	0	5	0	0	6	7	0	0
0	0	3	0	4	0	0	0	0
0	0	9	0	0	0	1	0	7
0	0	7	0	3	0	0	0	9
0	0	0	8	0	0	0	0	0
0	0	0	0	0	0	0	0	1
0	0	0	0	0	8	0	0	4
1	2	0	0	0	0	0	0	0
6	7	8	0	0	0	0	0	0
0	0	0	0	0	9	0	0	5
1	0	0	6	7	0	0	3	0

Show 25 per page

9s completed at 10:00 AM

Output of sudoo4.csv input was two blank sudoku k=4

The screenshot shows a Jupyter Notebook environment. On the left, a file explorer displays a directory structure with files named `sample_data`, `sudoo.csv`, `sudoo1.csv`, `sudoo2.csv`, `sudoo3.csv`, and `sudoo4.csv`. The main area contains a code cell with the following output:

```
[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
Answer:
[16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1]
[12, 11, 10, 9, 16, 15, 14, 13, 4, 3, 2, 1, 8, 7, 6, 5]
[8, 7, 6, 5, 4, 3, 2, 1, 16, 15, 14, 13, 12, 11, 10, 9]
[4, 3, 2, 1, 8, 7, 6, 5, 12, 11, 10, 9, 16, 15, 14, 13]
[15, 16, 13, 14, 11, 12, 9, 10, 7, 8, 5, 6, 3, 4, 1, 2]
[11, 12, 9, 10, 15, 16, 13, 14, 3, 4, 1, 2, 7, 8, 5, 6]
[7, 8, 5, 6, 3, 4, 1, 2, 15, 16, 13, 14, 11, 12, 9, 10]
[3, 4, 1, 2, 7, 8, 5, 6, 11, 12, 9, 10, 15, 16, 13, 14]
[14, 13, 16, 15, 10, 9, 12, 11, 6, 5, 8, 7, 2, 1, 4, 3]
[10, 9, 12, 11, 14, 13, 16, 15, 2, 1, 4, 3, 6, 5, 8, 7]
[6, 5, 8, 7, 2, 1, 4, 3, 14, 13, 16, 15, 10, 9, 12, 11]
[2, 1, 4, 3, 6, 5, 8, 7, 10, 9, 12, 11, 14, 13, 16, 15]
[13, 14, 15, 16, 9, 10, 11, 12, 5, 6, 7, 8, 1, 2, 3, 4]
[9, 10, 11, 12, 13, 14, 15, 16, 1, 2, 3, 4, 5, 6, 7, 8]
[5, 6, 7, 8, 1, 2, 3, 4, 13, 14, 15, 16, 9, 10, 11, 12]
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16]

[15, 16, 13, 14, 11, 12, 9, 10, 7, 8, 5, 6, 3, 4, 1, 2]
[11, 12, 9, 10, 15, 16, 13, 14, 3, 4, 1, 2, 7, 8, 5, 6]
[7, 8, 5, 6, 3, 4, 1, 2, 15, 16, 13, 14, 11, 12, 9, 10]
[3, 4, 1, 2, 7, 8, 5, 6, 11, 12, 9, 10, 15, 16, 13, 14]
[16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1]
[12, 11, 10, 9, 16, 15, 14, 13, 4, 3, 2, 1, 8, 7, 6, 5]
[8, 7, 6, 5, 4, 3, 2, 1, 16, 15, 14, 13, 12, 11, 10, 9]
[4, 3, 2, 1, 8, 7, 6, 5, 12, 11, 10, 9, 16, 15, 14, 13]
[13, 14, 15, 16, 9, 10, 11, 12, 5, 6, 7, 8, 1, 2, 3, 4]
[9, 10, 11, 12, 13, 14, 15, 16, 1, 2, 3, 4, 5, 6, 7, 8]
[5, 6, 7, 8, 1, 2, 3, 4, 13, 14, 15, 16, 9, 10, 11, 12]
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16]
[14, 13, 16, 15, 10, 9, 12, 11, 6, 5, 8, 7, 2, 1, 4, 3]
[10, 9, 12, 11, 14, 13, 16, 15, 2, 1, 4, 3, 6, 5, 8, 7]
[6, 5, 8, 7, 2, 1, 4, 3, 14, 13, 16, 15, 10, 9, 12, 11]
[2, 1, 4, 3, 6, 5, 8, 7, 10, 9, 12, 11, 14, 13, 16, 15]
```

The status bar at the bottom indicates that the execution completed at 10:06 AM.