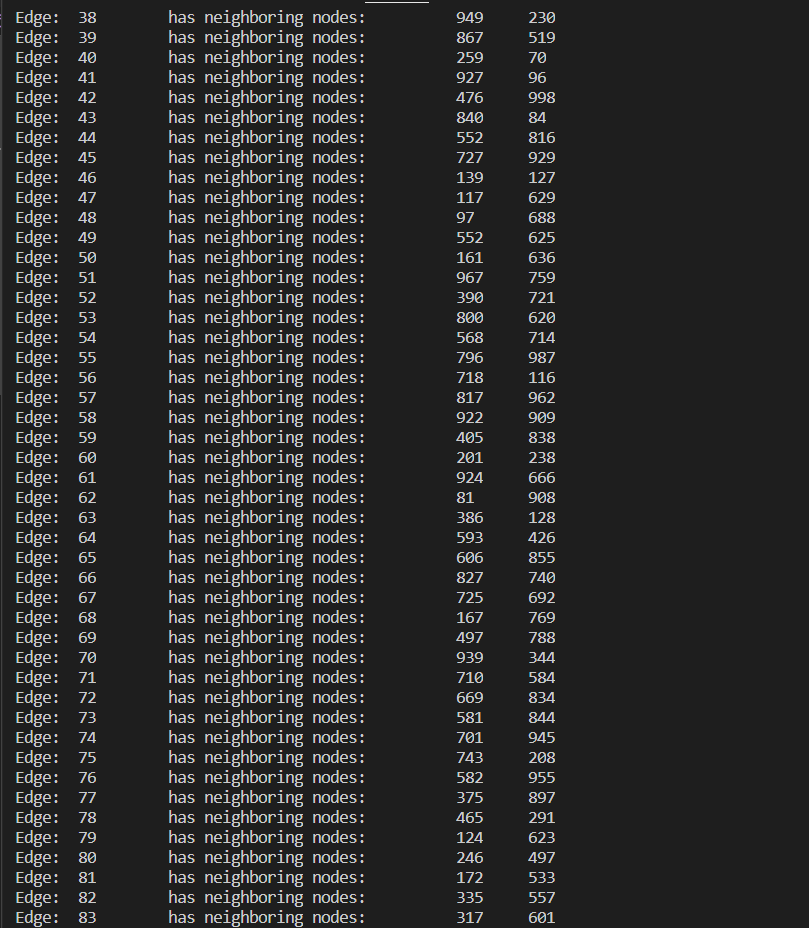
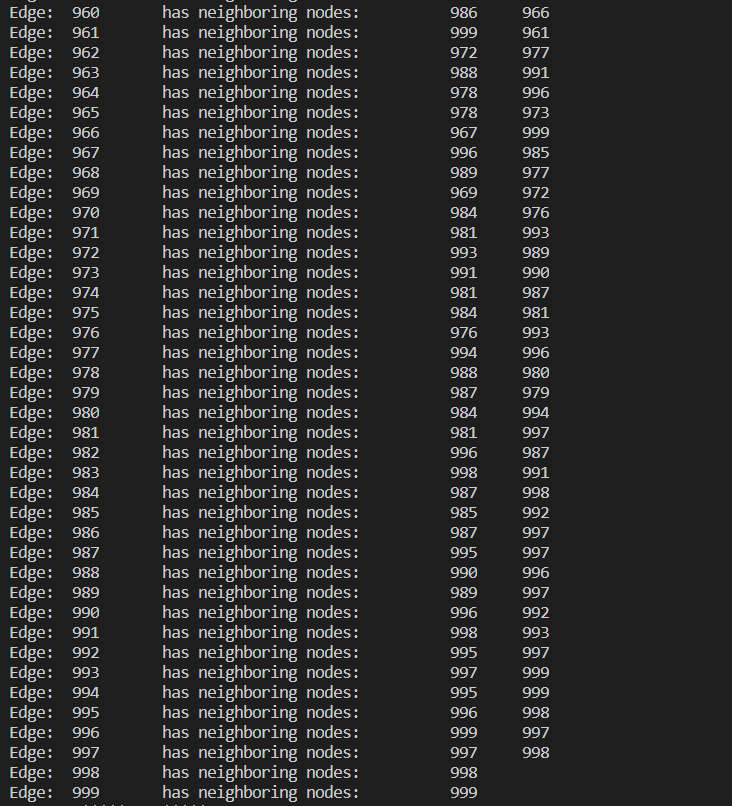
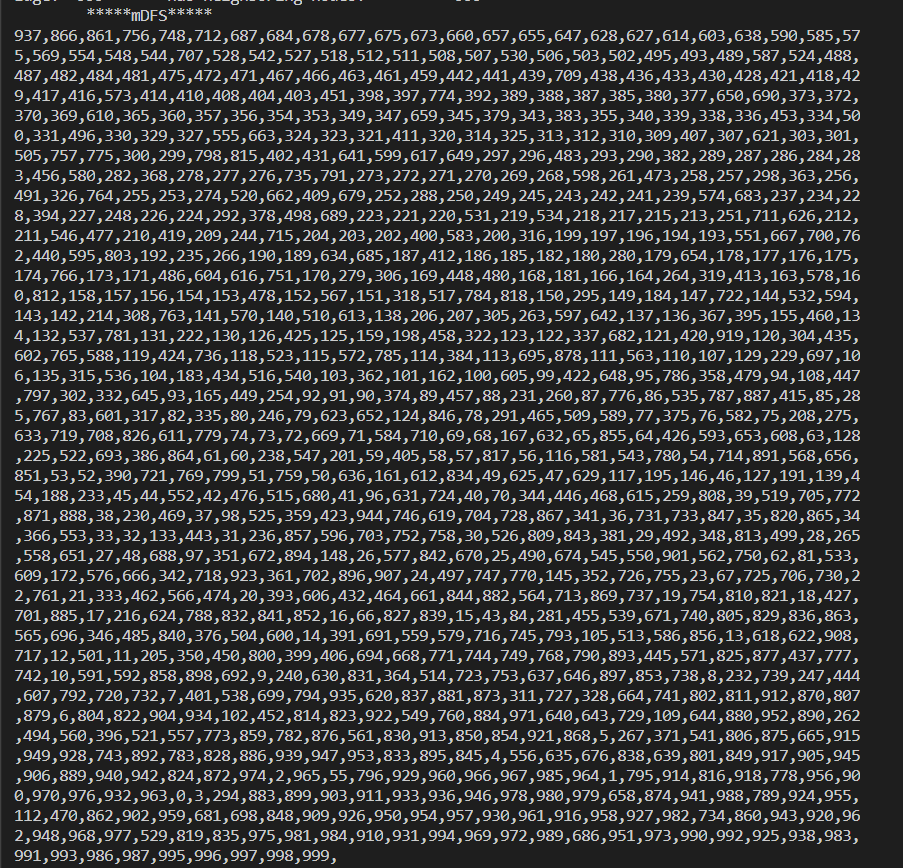
Vaishnavi Patel

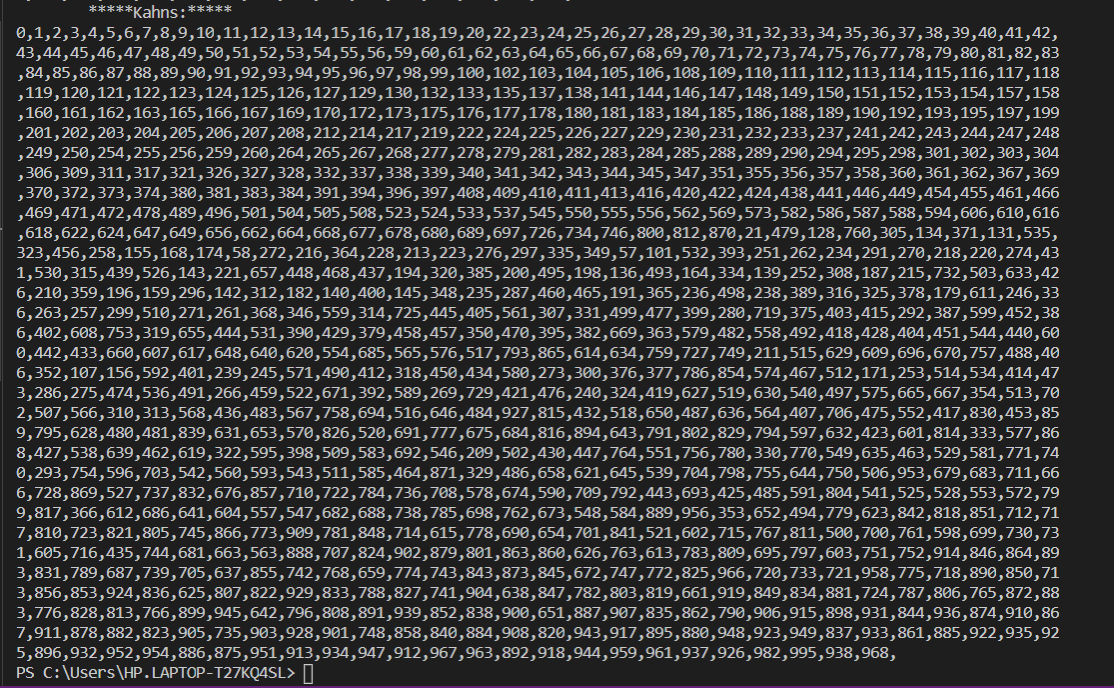
The python version I used is 3.7

**Question 4: Thank you Vertext**

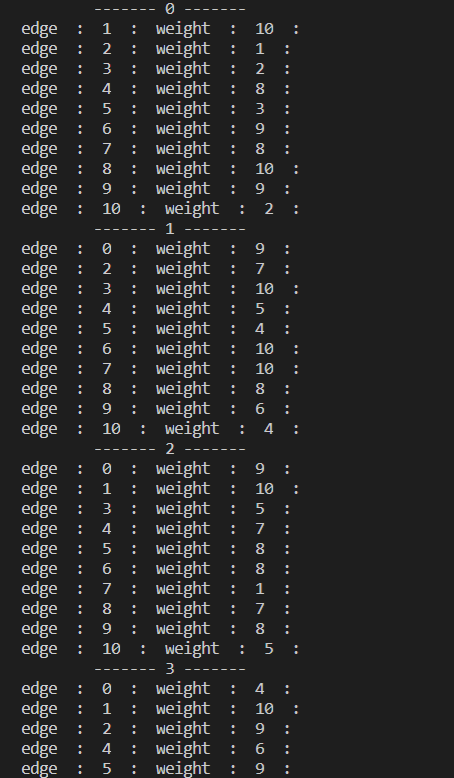


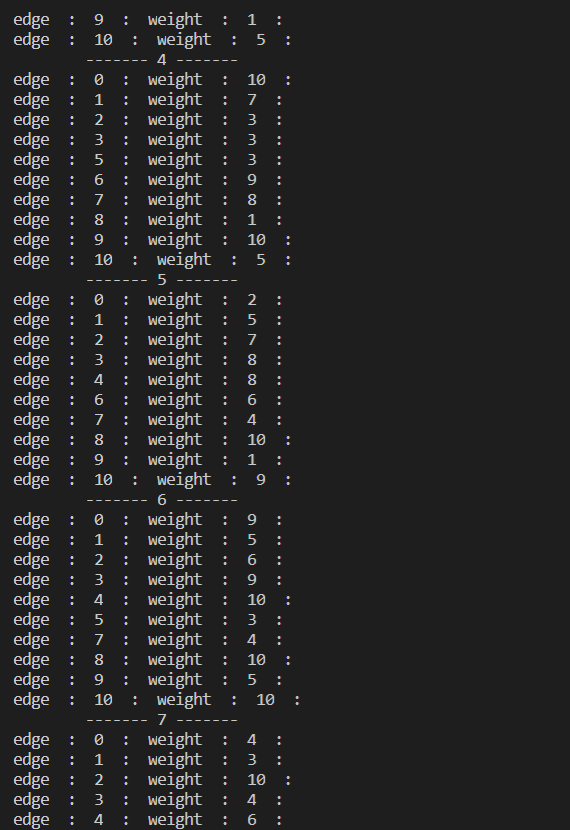


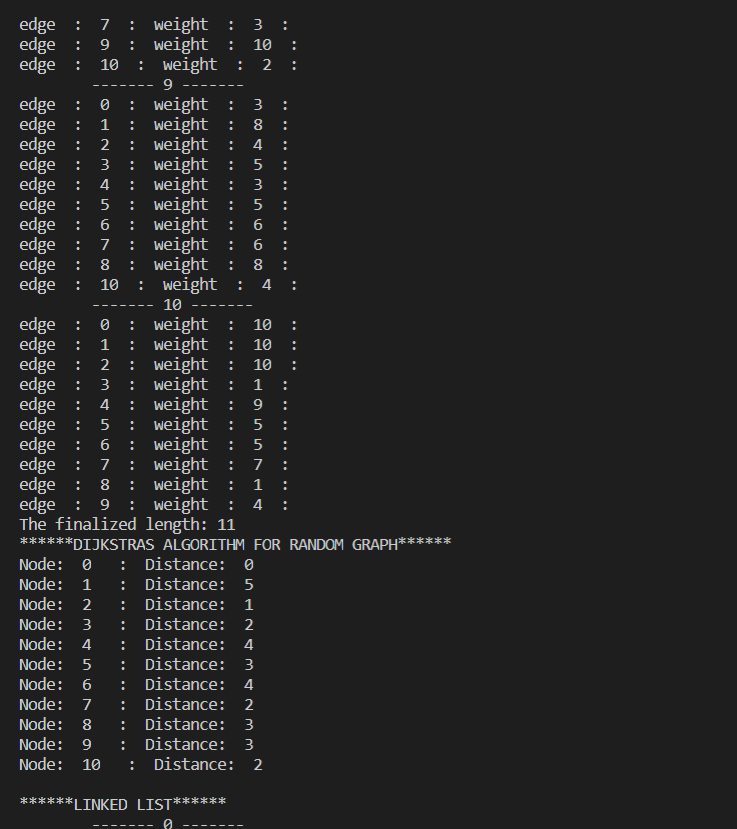


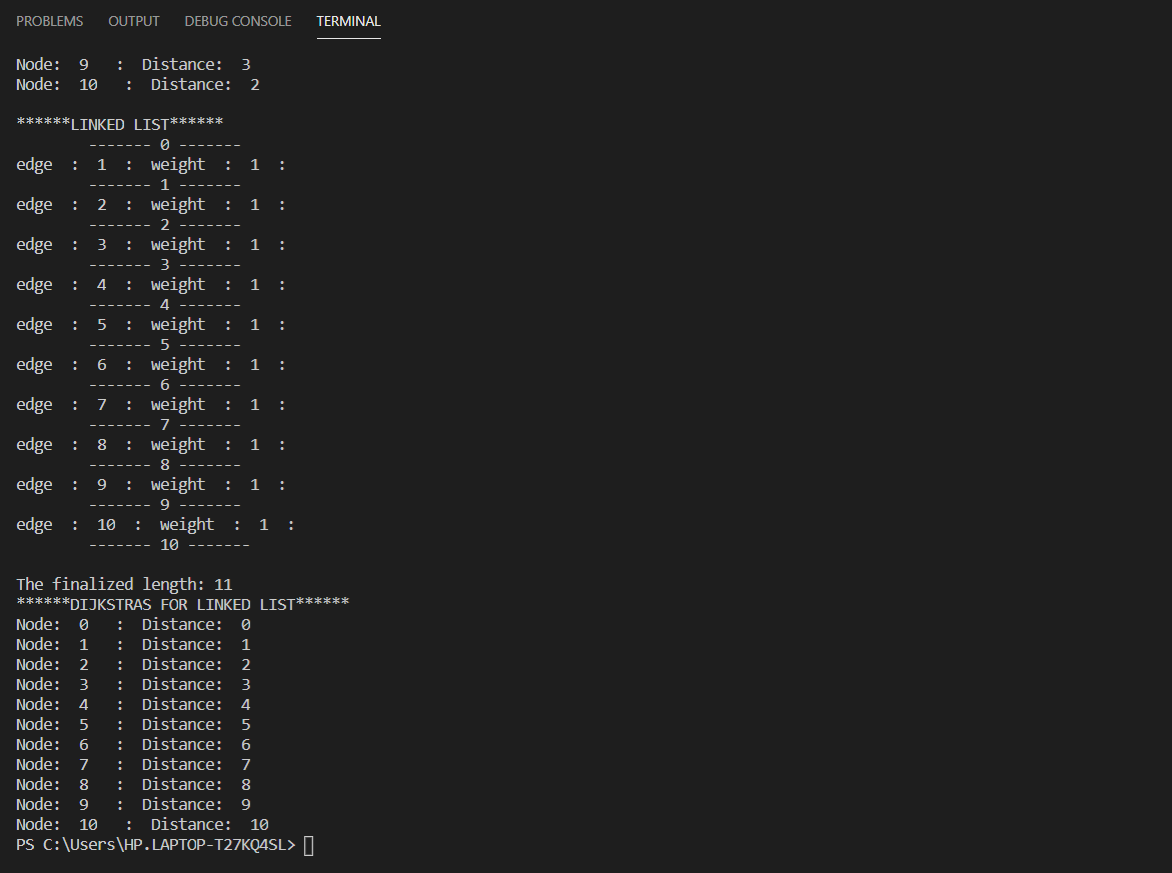


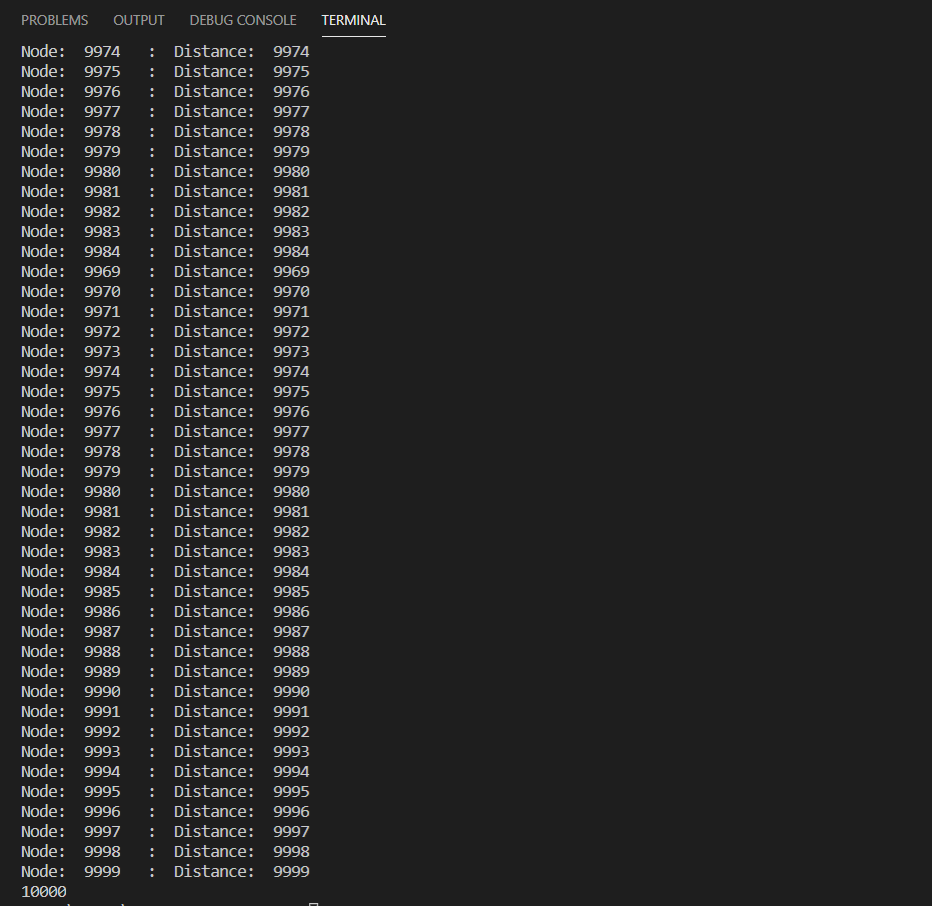
I node you want me:

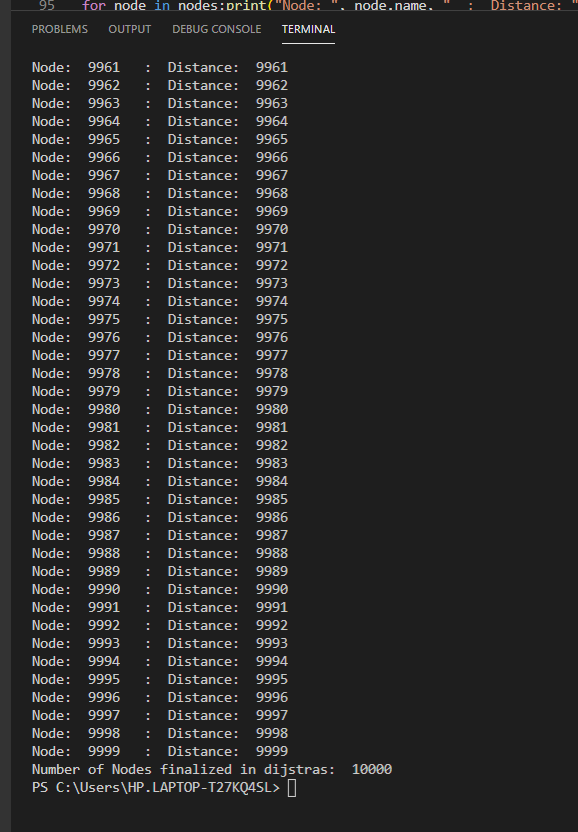




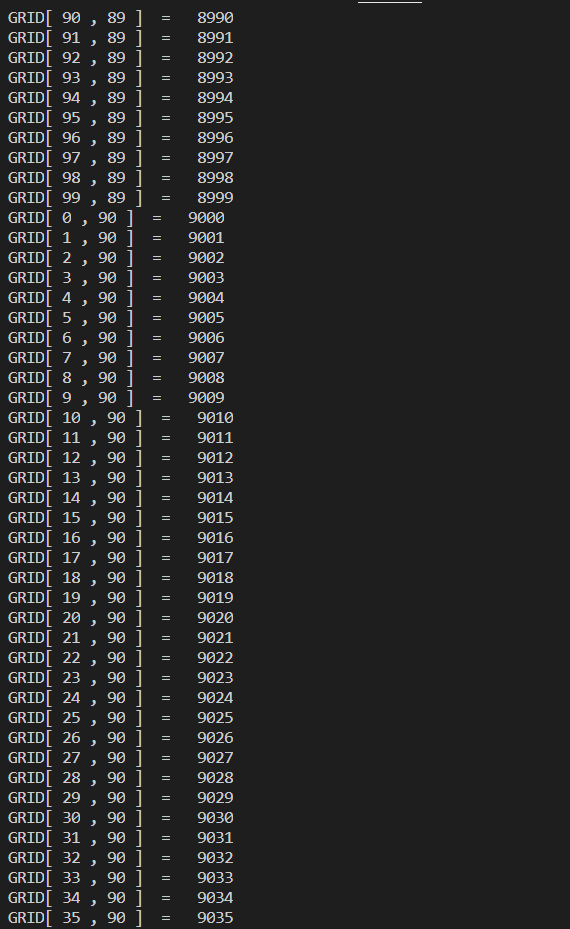


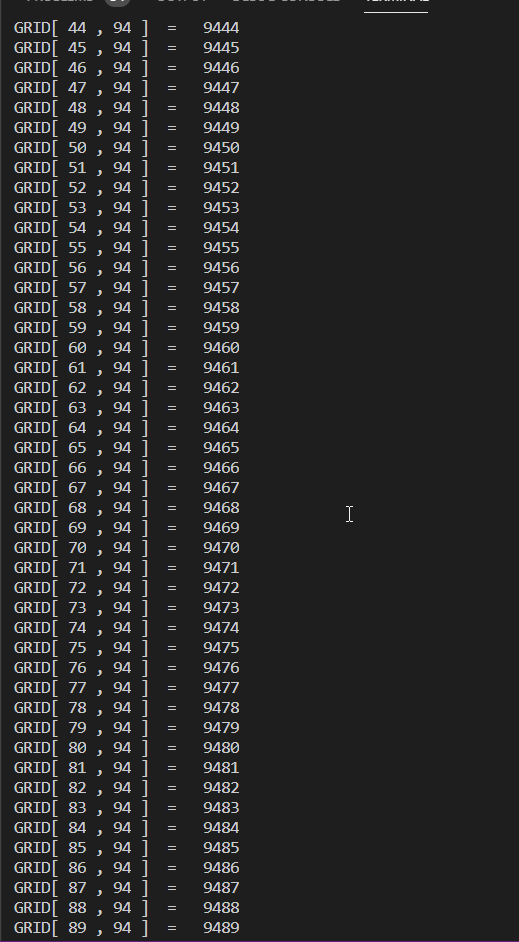


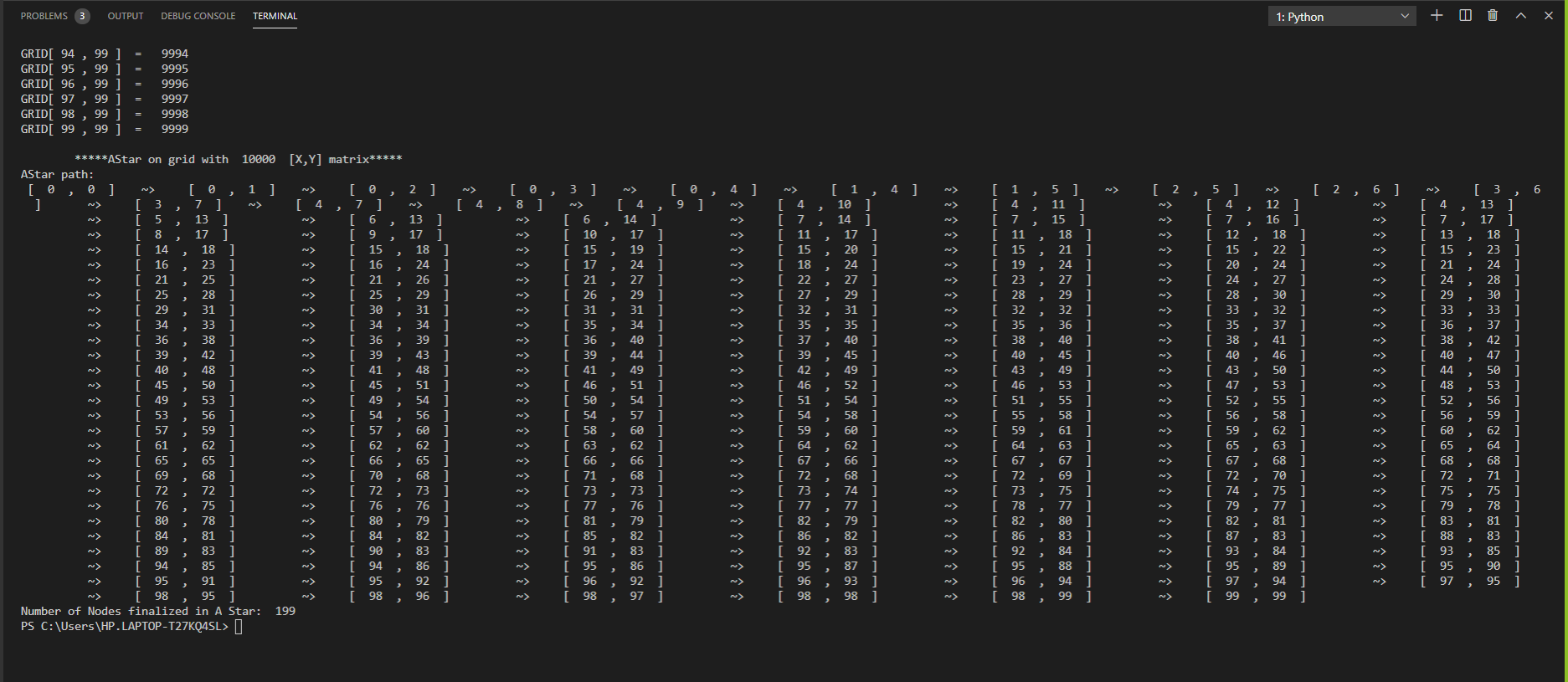




**Question: Wish upon a star**

****

****



Extra Credit:

Size = 10000

Number of Nodes finalized in Dijkstra’s = 10000

Number of Nodes finalized in A Star = 199

Yes, there is a big difference in numbers between the two searches. A\* goes through less nodes when determining the path while Dijkstra’s visits all nodes.