

# TSP 8 Heuristique ChatGPT

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## Data

TSP8/?	1	2	3	4	5	6	7	8	
1	0	12	3	23	1	5	32	56	1
2	12	0	9	18	3	41	45	5	2
3	3	9	0	89	56	21	12	49	3
4	23	18	89	0	87	46	75	17	4
5	1	3	56	87	0	55	22	86	5
6	5	41	21	46	55	0	21	76	6
7	32	45	12	75	22	21	0	11	7
8	56	5	49	17	86	76	11	0	8
	1	2	3	4	5	6	7	8	

"Cities, ""Distance (km)"""

1-2,12

1-3,3

1-4,23

1-5,1

1-6,5

1-7,32

1-8,56

2-3,9

2-4,18

2-5,3

2-6,41

2-7,45

2-8,5

3-4,89

3-5,56

3-6,21

3-7,12

3-8,49

4-5,87

4-6,46

4-7,75

4-8,17

5-6,55

5-7,22

5-8,86

6-7,21

6-8,76

7-8,11

## Solution ChatGPT

Got it — I computed the **closed** tour (includes the return leg to the start, start fixed at City 1).

**Shortest closed TSP tour (visit each city once, then return to City 1):**

1. City 1
2. City 5
3. City 2
4. City 3
5. City 6
6. City 7
7. City 8
8. City 4
9. City 1 (return)

**Total closed-tour distance: 106 km**

I saved the tour as a CSV you can download here:

[Download the closed-tour CSV](#)

Notes / next options:

- This solution fixed the start at **City 1** to avoid equivalent cyclic permutations. If you want the best tour allowing any start (canonical minimal cycle) I can produce that as well.
- If you'd like the step-by-step leg distances or the full distance matrix shown, I can provide them. Which would you like next?

[https://chatgpt.com/s/t\\_691e3db84c44819183ebdf2937b2d677](https://chatgpt.com/s/t_691e3db84c44819183ebdf2937b2d677)

<https://chatgpt.com/share/691e3e75-2d6c-8000-8d27-60c4afce7cdd>

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