

Magical Artifact Hunt

Story:

In the magical world of Eldoria, you serve as the royal courier of enchanted parcels, each containing powerful artifact needed to restore harmony to the realms. Your quest begins at the venerable Wizard's Tower, and you must journey across kingdoms such as the Glimmering Glade, the Shadowed Forest, Emberpeak, and the Sapphire Lake, delivering each artifact. With dangers lurking at every crossroad, only the swiftest path will ensure the realms are saved before dusk falls.

Goal: Starting from the legendary Wizard's Tower, visit every mystical realm exactly once so that the total travel time is as small as possible. You do not have to return to the tower.

What you receive

The system sends your service a JSON object like this:

```
{  
  "nodes": ["WIZARD_TOWER", "GLIMMERING_GLADE", "SHADOWED_FOREST",  
 "EMBERPEAK", ...]  
  "times": [[0, 5, 9, ...], [5, 0, 2, ...], [9, 2, 0, ...], ...],  
  "start": "WIZARD_TOWER"  
}
```

Meaning:

nodes: is the list of places, always starting with the Wizard's Tower.

times: is an NN matrix. *times[i][j]* is the travel time (in enchanted minutes) from *nodes[i]* to *nodes[j]*. The matrix is symmetric and has 0 on the diagonal.

start: is always the Wizard's Tower

What you must send back

Send a JSON object with two fields:

```
{  
  "route": ["WIZARD_TOWER", "...", "..."],  
  "totalTime": 123  
}
```

Your answer is correct if:

1. Return code is 200
2. The format is valid
3. The route is valid
4. The totalTime is the smallest possible among all valid routes.