

Hiking statistics

Calculate the total distance hiked, the maximum elevation above sea level, the total ascent, and the total descent from a list of hiking segments.

Each line represents a segment of the hike, formatted as "distance elevation_above_sea_level", where distance is in kilometers from the previous segment endpoint and elevation_above_sea_level is in meters.

The first line represents the starting point of the hike, where the distance is always 0, but the elevation can vary.

Your task is to return the total distance hiked, the maximum elevation above sea level, total ascent and total descent. The output should be a single string formatted as follows: "total_distance max_elevation_above_sea_level total_ascent total_descent", where:

- total_distance is the total distance hiked in kilometers.
- max_elevation_above_sea_level is the maximum elevation in meters.
- total_ascent is the total ascent in meters.
- total_descent is the total descent in meters.

Example

Input:

```
0 122
1 126
4 290
1 273
5 368
2 253
```

Output:

```
13 368 263 132
```