

# Level 4



#### Task for level 4:

#### Find the corresponding asteroid occurrences.

All assumptions are like in Level 3 apart from the image order and the possibility of repeated views.

#### In this level:

- > For each asteroid you have several images, each one showing either the front or the back view of an asteroid.
- There is at least one front and one back image for each asteroid.

For each asteroid, output the timestamp of its first occurrence alongside with its volume





#### **Input format:** The same as in Level 3

- timestamps are unique
- The images are ordered by their timestamps
- > There is at least one front and one back side view for each asteroid.
- There might be more than one front/back views from the same asteroid.
- > The distance from the asteroid to the imaging plane may vary between several views.

#### **Output format:** The same as in Level 3

The resultlines must be ordered by timestamp



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### Sample input:

#### 5 14 2 3

- 2 3 0
- 2 2 3
- 18 2 3
- 0 19 0
- 19 19 19
- 19 2 3
- 4 5 0
- T 3 C
- 4 4 5
- 23 2 3
- 0 29 29
- 29 29 29
- 32 2 3
- 0 9 0
- 10 10 10

#### Sample output:

- 14 8
- 18 5

