

Level 2

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We would like to identify recurring asteroids.

First, we would like to group asteroids by their *shapes*:

- We disregard intensity values and just distinguish presence (positive intensity) and non-presence (zero intensity) pixels.
- We disregard offsets within the image.



We would like to identify recurring asteroids.

We assume:

- Images showing identical shape, stem from (are produced by) the same asteroid.
- > Images showing different shapes, stem from different asteroids.

Task for Level 2:

Output a result line for each asteroid in order of its first occurrence



Input format. Same as in Level 1.

Output format:

- > output ::= resultline*
- > resultline ::= first last count NL

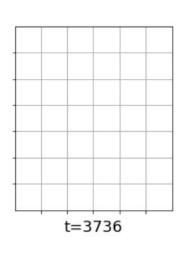
The resultlines are **ordered by first occurrence**.

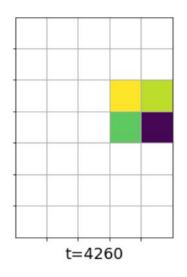
description	type	name
e occurrences of an asteriod		resultline
amp of first occurrence	nteger	first
stamp of last occurence	nteger	last
number of occurrences	nteger	count
new-line		NL
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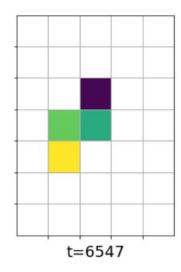
Catalysts

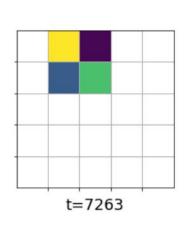


Sample input:









Sample output:

4260 7263 2 6547 6547 1

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Sample input:

1000 9999 4 3736 7 6 0 0 0000 00000 0000 0000 0000 0 0 0000 0 0 0000 4260 7 5 00000 0 0 0 0 698 639 0 553 113 0 0 0

0 0 0 0 0 0 0 0 0 0 0 0

Sample input (cont):

```
6547 7 5
00000
00000
0 0 29 0 0
0 478 395 0 0
0 617 0 0 0
00000
00000
7263 5 5
0 843 2 0 0
0 250 602 0 0
00000
00000
00000
```

DEUTSCHE BÖRSE