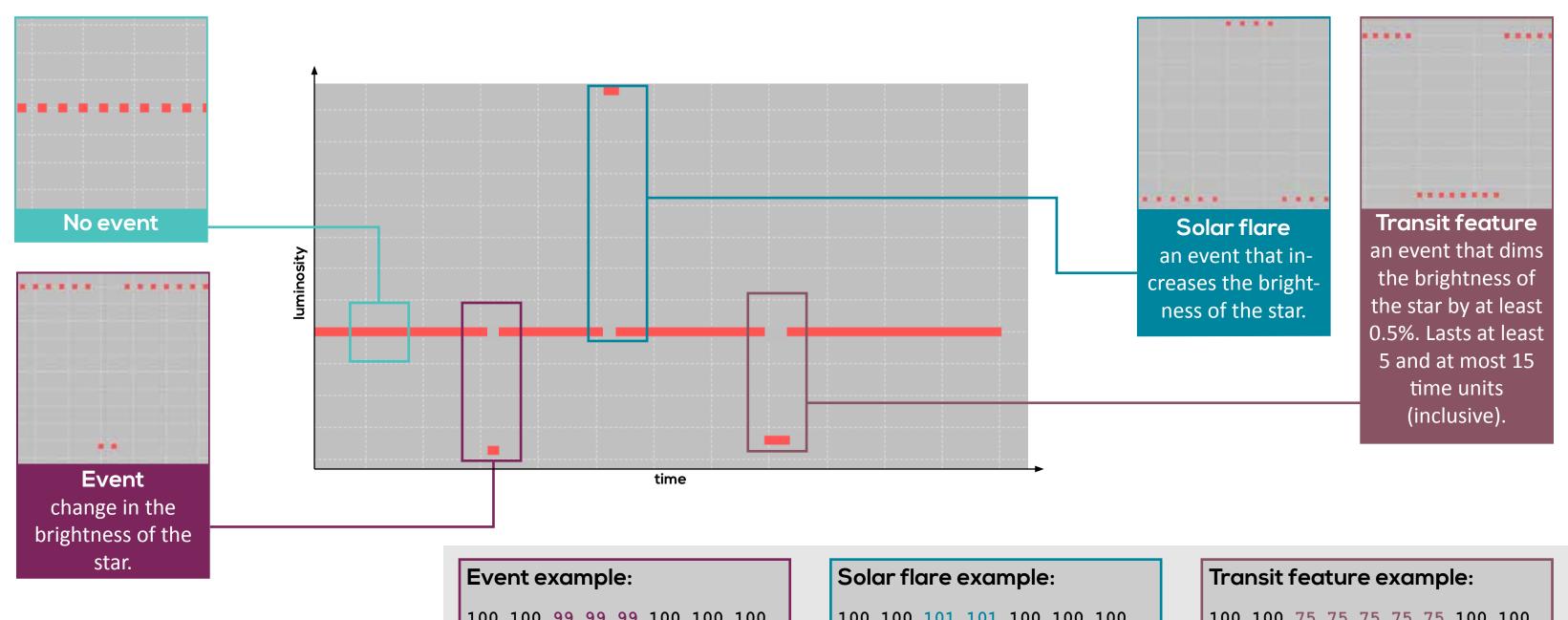
## level 2



Now we'll need to analyse the light curve. Your task: Find all the events, and classify them.



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100 100 99 99 99 100 100 100

random event (neither solar flare or transit feature)

100 100 101 101 100 100 100

is a solar flare because it increases in value

100 100 75 75 75 75 75 100 100

decreases by at least 0.5%, has length of at least 5

# level 2



### Input:

- format: same as for level 1
- file: same as for level 1

### Input Example:

#### Output:

- starName1 [solarFlareCount] [transitFeatureCount] starName2 [solarFlareCount]
  [transitFeatureCount] ... starNamem [solarFlareCount] [transitFeatureCount]
- Output items are separated by space characters.
- The output has to be ordered the same way as the input.

**Output Example** 

Starl 1 1



# level 2



#### **Constraints** (it is guaranteed that):

- During a single event the luminosity is constant.
- Events (solar flares, transit features, or random events) do not overlap.
- There is a distance of at least 5 time units between two events.
- An event can last from 1 to 15 time units. (inclusive)
- There is a maximum of 5 events per star.
- The first element of the luminosity array is not part of an event.

#### Remember that

- Solar flares are events that increase the brightness of the star.
- Transit features are events that decrease the brightness of the star by at least 0.5% and have a length of at least 5.

#### Transit feature visualization

