

## 34

**Hoverboard Olympics***38 points***Introduction**

The amazing Hoverboard Olympics have arrived for one more year one year more. The participants are super excited to give their best and be the winners of the competition. The one with the higher score will be the winner. Could you help the judges to evaluate each participant?

**Input**

The first line is a number with the height of the map, which will be followed by that amount of lines. These lines describe the terrain of the competition, and they will only contain the character '\_', '/', '\ ' and '|'. The character '|' indicates the finish line of the race, which is placed at the end of all the lines of the map.

Then, there will be a list of participants, where each participant will start with the keyword "Participant", followed by the name and the number of actions that they do during the race. Each action is defined by an integer representing the horizontal position at which the action is executed and the name of the action. The horizontal position starts at 0 and will be always less than the length of the race map lines.

There are 3 types of actions:

- ramp-up: this action must occur in the previous position just before a '/', and the participant must then follow the '/' characters until the end of this ramp.
- ramp-down: this action must occur in the previous position just before a '\ ', and the participant must then follow the '\ ' characters until the end of this ramp.
- jump: this action may occur at any position, and the participant will go one row up in the following position and will continue on that row until the jump finishes. This action is followed by a positive number indicating the length of the jump.
- loop: this action must occur in any of the '\_' characters of a valid loop (which is a closed sequence as you can see in the examples below) and the participant will follow the whole loop.

Tips:

- Only one action is executed at a time (example: no ramp-up will be executed during a jump).



```
Action 1 ramp_up
Action 3 ramp_up
Action 9 jump 3
Action 17 loop
Participant Emma
Action 1 ramp_up
Action 3 ramp_up
Action 9 jump 2
Action 13 jump 1
Action 27 jump 10
Participant Colton
Action 1 jump 3
Action 6 ramp_down
Action 10 jump 4
Action 21 loop
Participant Sakura
Action 1 ramp_up
Action 21 loop
Action 25 loop
Action 26 loop
Action 27 loop
Action 28 loop
```

### Output

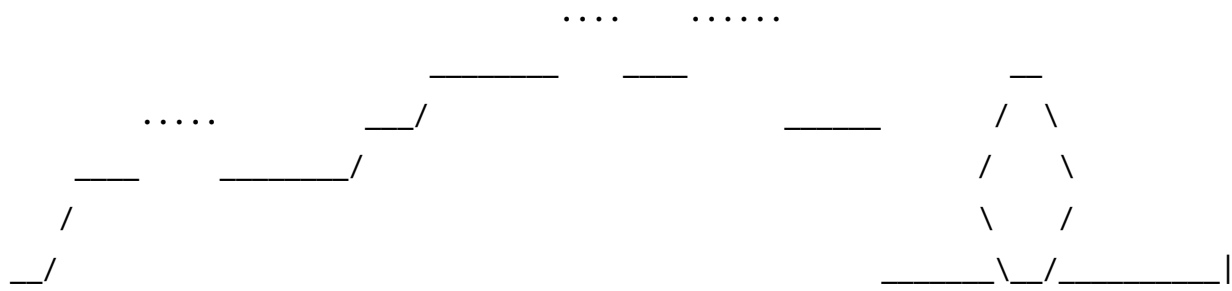
```

      -
     ... / \
    _____ \ / _____
   _/
  _/
Johnny score is 73 _____|
```





John score is 57



Alex score is 190