

Level 6

Catalysts

10:1,4,4,5,6,4,5,5,10,0,1,7,3,6,4,10,2,8,6

Correct result:

1	4	4	5	6		5				0	1	7		6				2	6
5		14		29		49		60		61		77		97		117		133	



Additional information:

Expected result: 5,14,29,49,60,61,77,97,117,133



Additional puzzle:

Input – Output Description

Catalysts

Input: <Number of Rounds>:<Throw1>,<Throw2>,<Throw3>, ...

- Example: 3:1,4,6,4,7,0
- No empty spaces

Output: <Score Round1>,<Score Round2>, ...

- Example : 5,22,29
- No empty spaces

When „Request Tests“ is selected, more test cases in the format described above will be shown.

Take these Strings as Input for your program.

Copy the output of your program in the box near the input.

Press „Submit Tests“. The server will check the results.

Bowling

Catalysts

- One **game** has **10 rounds**.
- In **each round** each Player has **2 throws**, in order to knock down **10 pins**.
- The **score** for a round is the sum of **the pins that were knocked down**, plus a **Bonus** for *strikes* and *spares*.
 - Points of the first round: $1 + 4 = 5$
 - Points of the second round: $4 + 5 = 9$; in total: $5 + 9 = 14$
 - Strike: The player knocks down all 10 pins with one throw.
 - Spare: The player knocks down all 10 pins with two throws within the same round.

The diagram shows a bowling score sheet with 10 rounds. Each round is represented by a box divided into two sections for the two throws. The top section shows the number of pins remaining after the throw, and the bottom section shows the score. Arrows point to specific throws: 'Spares' points to the 6th and 7th throws, and 'Strikes' points to the 5th and 9th throws.

Round	Throw 1	Throw 2	Score
1	1	4	5
2	4	5	14
3	6	4	29
4	5	4	49
5	Strike	Strike	60
6	0	1	61
7	7	3	77
8	6	3	97
9	Strike	Strike	117
10	2	8	133

Annotations: **Spares** (points to Round 6 and 7), **Strikes** (points to Round 5 and 9).

Spares

Catalysts

The player knocks down all 10 pins with the two throws within the same round. The **Bonus** for this round is the number of **knocked down pins of the next throw**.

1	4	4	5	6	▲	5	▲	■	0	1	7	▲	6	▲	■	2	▲	6
5	14	29	49	60		61	77	97	117	133								

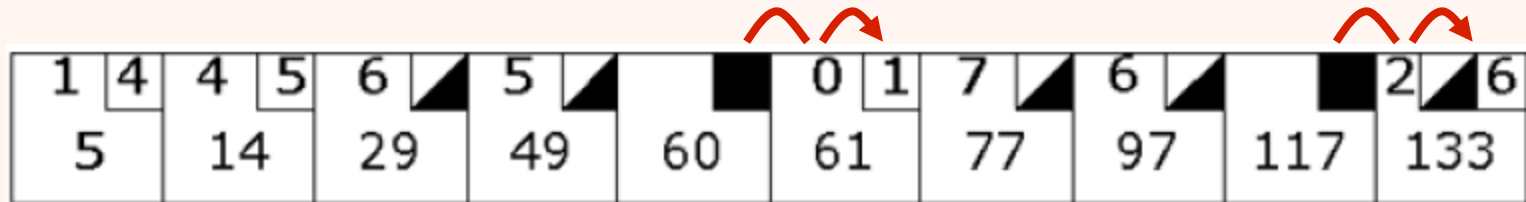
3. Round: $6 + 4 = 10$; Bonus = 5; $14 + 10 + 5 = 29$
4. Round : $5 + 5 = 10$; Bonus = 10; $29 + 10 + 10 = 49$
7. Round : $7 + 3 = 10$; Bonus: 6; $61 + 10 + 6 = 77$
8. Round : $6 + 4 = 10$; Bonus: 10; $77 + 10 + 10 = 97$
10. Round : $2 + 8 = 10$; Bonus: 6; $117 + 10 + 6 = 133$

Strikes

Catalysts

The player knocks down all 10 pins with only one throw.

The **Bonus** for this Round is the number of **knocked down pins in the next 2 throws.**



1	4	4	5	6	5		0	1	7	6		2	6
5	14	29	49	60	61	77	97	117	133				

5. Round:10; Bonus: 0 + 1; $49 + 10 + 0 + 1 = 60$

9. Round: 10; Bonus: 2 + 8; $97 + 10 + 2 + 8 = 117$