A. Bear and Game

time limit per test: 2 seconds

memory limit per test: 256 megabytes

Bear Limak likes watching sports on TV. He is going to watch a game today. The game lasts 90 minutes and there are no breaks.

Each minute can be either interesting or boring. If 15 consecutive minutes are boring then Limak immediately turns TV off.

You know that there will be n interesting minutes $t_1, t_2, ..., t_n$. Your task is to calculate for how many minutes Limak will watch the game.

Input

The first line of the input contains one integer n ($1 \le n \le 90$) — the number of interesting minutes.

The second line contains n integers $t_1, t_2, ..., t_n$ ($1 \le t_1 < t_2 < ... t_n \le 90$), given in the increasing order.

Output

Print the number of minutes Limak will watch the game.

Examples

input	Copy
3 7 20 88	

output	Copy
35	

input	Copy
9 16 20 30 40 50 60 70 80 90	

output	Copy
15	

input	Copy
9 15 20 30 40 50 60 70 80 90	

output	Copy
90	

Note

In the first sample, minutes $21, 22, ..., 35$ are all boring and thus Limak will turn TV off immediately after the 35-th minute. So, he would watch the game for 35 minutes.

In the second sample, the first 15 minutes are boring.

In the third sample, there are no consecutive 15 boring minutes. So, Limak will watch the whole game.

Codeforces Round 351 (VK Cup 2016 Round 3, Div. 2 Edition)

Finished

Practice

⭐

→ Virtual participation ⌄

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Start virtual contest

→ Clone Contest to Mashup ›

→ Submit?

Language: GNU G++17 7.3.0 ⌄

Choose file: [Choose File] No file chosen

Submit

→ Last submissions

Submission	Time	Verdict
347759776	Nov/06/2025 19:41	Accepted
347756189	Nov/06/2025 19:31	Wrong answer on test 15
347755283	Nov/06/2025 19:29	Wrong answer on test 10
347754132	Nov/06/2025 19:26	Wrong answer on test 11
347753120	Nov/06/2025 19:23	Wrong answer on test 7
347751810	Nov/06/2025 19:20	Wrong answer on test 7

→ Problem tags

implementation   *800

No tag edit access