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## IPL     Problem Code: **ZCO14004**

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# Zonal Computing Olympiad 2014, 30 Nov 2013

In IPL 2025, the amount that each player is paid varies from match to match. The match fee depends on the quality of opposition, the venue etc.

The match fees for each match in the new season have been announced in advance. Each team has to enforce a mandatory rotation policy so that no player ever plays three matches in a row during the season.

Nikhil is the captain and chooses the team for each match. He wants to allocate a playing schedule for himself to maximize his earnings through match fees during the season.

## Input format

Line 1: A single integer $N$, the number of games in the IPL season.

Line 2: $N$ non-negative integers, where the integer in position $i$ represents the fee for match $i$.

## Output format

The output consists of a single non-negative integer, the maximum amount of money that Nikhil can earn during this IPL season.

## Sample Input 1

```
5
10 3 5 7 3
```

## Sample Output 1

```
23
```

(Explanation: 10+3+7+3)

## Sample Input 2

```
8
3 2 3 2 3 5 1 3
```

## Sample Output 2

```
17
```

(Explanation: 3+3+3+5+3)

## Test data

There is only one subtask worth 100 marks. In all inputs:

- $1 \leq N \leq 2 \times 10^5$

- The fee for each match is between 0 and $10^4$, inclusive.

## Live evaluation data

There are 12 test inputs on the server during the exam.

| | |
|---|---|
| Author: | admin3 (/users/admin3) |
| Date Added: | 2-11-2015 |
| Time Limit: | 1 secs |
| Source Limit: | 50000 Bytes |
| Languages: | C, C99 strict, CPP 4.3.2, CPP 6.3, CPP14, JAVA, PYTH, PYTH 3.5 |

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## Comments ▶

**CodeChef (http://www.codechef.com) - A Platform for Aspiring Programmers**
CodeChef was created as a platform to help programmers make it big in the world of algorithms, **computer programming** and **programming contests**. At CodeChef we work hard to revive the geek in you by hosting a **programming contest** at the start of the month and another smaller programming challenge in the middle of the month. We also aim to have training sessions and discussions related to **algorithms**, **binary search**, technicalities like **array size** and the likes. Apart from providing a platform for **programming competitions**, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of **computer programming**.

**Practice Section (https://www.codechef.com/problems/easy) - A Place to hone your 'Computer Programming Skills'**

Try your hand at one of our many practice problems and submit your solution in a language of your choice. Our **programming contest** judge accepts solutions in over 35+ programming languages. Preparing for coding contests were never this much fun! Receive points, and move up through the CodeChef ranks. Use our practice section to better prepare yourself for the multiple **programming challenges** that take place through-out the month on CodeChef.

**Compete (https://www.codechef.com/problems/easy) - Monthly Programming Contests and Cook-offs**

Here is where you can show off your **computer programming skills**. Take part in our 10 day long monthly coding contest and the shorter format Cook-off **coding contest**. Put yourself up for recognition and win great prizes. Our **programming contests** have prizes worth up to INR 20,000 (for Indian Community), $700 (for Global Community) and lots more CodeChef goodies up for grabs.

**Programming Tools**

Online IDE (https://www.codechef.com/ide)

Upcoming Coding Contests (http://www.codechef.com/contests#FurtureContests)

Contest Hosting (http://www.codechef.com/hostyourcontest)

Problem Setting (http://www.codechef.com/problemsetting)

CodeChef Tutorials (http://www.codechef.com/wiki/tutorials)

CodeChef Wiki (https://www.codechef.com/wiki)

**Practice Problems**

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Medium (https://www.codechef.com/problems/medium)

Hard (https://www.codechef.com/problems/Hard)

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Peer (https://www.codechef.com/problems/extcontest)

School (https://www.codechef.com/problems/school)

FAQ's (https://www.codechef.com/wiki/faq)

**Initiatives**

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CodeChef for Schools (http://www.codechef.com/school)

Campus Chapters (http://www.codechef.com/campus_chapter/about)

Domain Registration in India (http://www.bigrock.in/) and Web Hosting (http://www.bigrock.com/web-hosting/) powered by BigRock