


Assignment Case	
CH1Special	
Periode Berlaku Semester Ganjil 2021/2022 Valid on Odd Semester Year 2021/2022	Software Laboratory Center Assistant Recruitment 22-1

Soal

Case

Robbing Hood

You are the modern version of **Robin Hood** living in modern - era, where every house has a security systems, connected to each other. But here's the catch, your friend Mr. Robot hacked the security systems, so you can **rob houses** that **are not adjacent** to each other, to **gain more money**. If you rob two houses that are **next to each other**, the police will be **alerted**.

Given the **amount of money of each house**, you need to return the **maximum money** that you can **rob for tonight without alerting the police**.

Input

The program will ask for an integer **n**. The next line, there will be **n-integers nums** which are the amount of money of each house.

Constraint

$$1 \leq n \leq 100$$

$$1 \leq \text{nums}[i] \leq 400$$

Output

Print out the **maximum money** that you can **rob** tonight **without alerting the police**.

Example (Print out one ‘\n’ at the end of the results)

Input	Output
4 1 2 3 1	4
5 2 7 9 3 1	12

Explanation

On the first test case, there are 4 houses, you can rob the first house with the total money of 1 and the third house with the total money of 3 which gave you a grand total of 4 which is the maximum money that you can rob.