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| **Assignment Case** | Description: LogoBINUS-University |
| 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 ≤ n ≤100

1 ≤ nums[i] ≤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.