 Gmail   **William Ting <williamdjting@gmail.com>**

FW: Art Gallery Thief

1 message

William Ting <william_ting_2@sfu.ca>   Mon, Jul 10, 2023 at 6:10 AM
To: "williamdjting@gmail.com" <williamdjting@gmail.com>

From: Daily Byte
Sent: Monday, July 10, 2023 6:10:21 AM (UTC-08:00) Pacific Time (US & Canada)
To: William Ting
Subject: Art Gallery Thief

The Daily Byte

Good morning,

Need help with yesterday's problem? Start getting solutions.

> Today's Byte

You've broken into an art gallery and want to maximize the value of the paintings you steal. All the paintings you steal you place in your bag which can hold at most

`W` pounds. Given that the weight and value of the ith painting is given by

`weights[i]` and

`values[i]` respectively, return the maximum value you can steal.

Ex: Given the following

`W` ,

`weights` array and

`values` array...

```
W = 10, weights = [4, 1, 3], values = [4, 2, 7], return 13.
```

Ex: Given the following `W`, `weights` array and `values` array...

```
W = 5, weights = [2, 4, 3], values = [3, 7, 2], return 7.
```

Ex: Given the following `W`, `weights` array and `values` array...

```
W = 7, weights = [1, 3, 4], values = [3, 5, 6], return 11.
```

Thanks,
The Daily Byte

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