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FW: Max Points

1 message

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From: Daily Byte**Sent:** Wednesday, June 21, 2023 6:10:40 AM (UTC-08:00) Pacific Time (US & Canada)**To:** William Ting**Subject:** Max Points

The Daily Byte

Good morning,

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Today's Byte

This question is asked by Google. You are given a bag of coins, an initial energy of `E`, and want to maximize your number of points (which starts at zero). To gain a single point you can exchange `coins[i]` amount of energy (i.e. if I have 100 energy and a coin that has a value 50 I can exchange 50 energy to gain a point). If you do not have enough energy you can give away a point in exchange for an increase in energy by `coins[i]` amount (i.e. you give away a point and your energy is increased by the value of that coin: `energy += coins[i]`). Return the maximum number of points you can gain.

Note: Each coin may only be used once.

Ex: Given the following coins and starting energy...

```
coins = [100, 150, 200] and E = 150, return 1  
coins = [100,200,300,400] and E = 200, return 2  
coins = [300] and E = 200, return 0
```

Thanks,
The Daily Byte

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