



## inimum Amount

Of Time to Collect

Jarbase...

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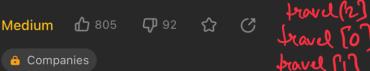
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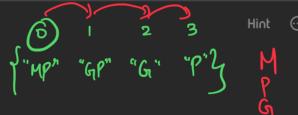
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## 2391. Minimum Amount of Time to Collect Garbage





You are given a **0-indexed** array of strings <code>garbage</code> where <code>garbage[i]</code> represents the assortment of garbage at the <code>[ith]</code> house. <code>garbage[i]</code> consists only of the characters <code>[M]</code>, <code>[P]</code> and <code>[G]</code> representing one unit of metal, paper and glass garbage respectively. Picking up **one** unit of any type of garbage takes <code>[]</code> minute.

You are also given a **0-indexed** integer array travel where [travel[i]] is the number of minutes needed to go from house [i] to house [i] + [i].

There are three garbage trucks in the city, each responsible for picking up one type of garbage. Each garbage truck starts at house 0 and must visit each house in order; however, they do not need to visit every house.

Only **one** garbage truck may be used at any given moment. While one truck is driving or picking up garbage, the other two trucks **cannot** do anything.

Return the minimum number of minutes needed to pick up all the garbage.

Example: gouboge = 
$$\{"G", "P", "GP", "GG"\}$$
  
 $\{\text{travel} = \{2, 4, 3\}$ 



(1) Garberge Pickup = 
$$1+1+2+2$$
(2) Travel time =  $2+4+2+4+3$ 

$$\Rightarrow P_{-idx} = 2 = 6$$

$$\Rightarrow G_{-idx} = 3 = (3-1)(9)$$

$$\Rightarrow M_{-idx} = 3$$





