
ARRAY : Video - 69

Medium
Leetcode
- 2391 ✓✓

...E.A.S.Y...



Minimum Amount
Of Time to Collect
Garbage...

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Company :- Will soon update ... //

2391. Minimum Amount of Time to Collect Garbage

Medium

805

92



Companies

Hint



travel[2]
travel[0]
travel[1]

0 1 2 3
{ "MP" "GP" "G" "P" }
M
P
G

You are given a **0-indexed** array of strings `garbage` where `garbage[i]` represents the assortment of garbage at the i^{th} house. `garbage[i]` consists only of the characters `'M'`, `'P'` and `'G'` representing one unit of metal, paper and glass garbage respectively. Picking up **one** unit of any type of garbage takes 1 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 $i + 1$.

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:-
garbage = {"G", "P", "GP", "GG"}
travel = {2, 4, 3}

Output = 21

Thought Process

garbage = {"G"⁰, "P"¹, "GP"², "GG"³}

travel = {2⁰, 4¹, 3²}

Req. sum = {2, 6, 9}

(21)

① Garbage Pickup =	$\frac{1 + 1 + 2 + 2}{2 + 4 + 2 + 4 + 3}$
② Travel time =	

$\Rightarrow P_idx = 2 = 6$

$\Rightarrow G_idx = 3 = (3-1) 9$

$\Rightarrow M_idx =$

the 1990s, the number of people in the UK who are employed in the public sector has increased by 1.5 million, from 2.5 million in 1980 to 4 million in 1995. The public sector has also become an important employer of women, with 5.5 million women employed in the public sector in 1995, compared with 4.5 million in 1980.

There are a number of reasons why the public sector has become an important employer of women. One reason is that the public sector has a high proportion of women in its workforce. In 1995, 88% of the public sector workforce were women, compared with 78% in 1980.

Another reason is that the public sector has a high proportion of women in its senior management. In 1995, 33% of the public sector senior management were women, compared with 23% in 1980.

A third reason is that the public sector has a high proportion of women in its part-time workforce. In 1995, 45% of the public sector workforce were part-time, compared with 35% in 1980.

There are a number of reasons why the public sector has a high proportion of women in its workforce, senior management and part-time workforce. One reason is that the public sector has a high proportion of women in its workforce who are in the 25-44 age group.

Another reason is that the public sector has a high proportion of women in its workforce who are in the 45-64 age group.

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the 1990s, the number of people in the UK who are employed in the public sector has increased by 1.5 million, from 2.5 million in 1980 to 4 million in 1995. The public sector has become a major employer in the UK, and its growth has been a key factor in the overall growth of the economy. The public sector has also become a major provider of social services, and its growth has been a key factor in the overall growth of the economy. The public sector has also become a major provider of social services, and its growth has been a key factor in the overall growth of the economy.

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