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Test Name: Mock Test

Taken On: 29 Oct 2021 11:31:15 IST

Time Taken: 2 min 32 sec/ 33 min

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Invited by: Ankush

Invited on: 29 Oct 2021 11:31:07 IST

Skills Score:

Tags Score: Algorithms 120/120

Core CS 120/120

Data Structures 120/120

Queues 120/120

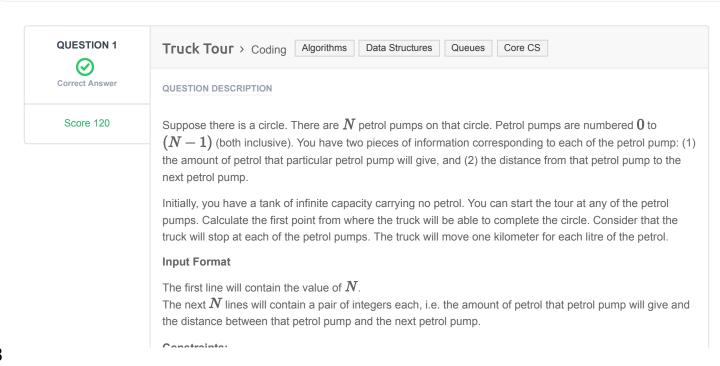
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scored in **Mock Test** in 2 min 32 sec on 29 Oct 2021 11:31:15 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1 Truck Tour > Coding		2 min 24 sec	120/ 120	\odot



```
1 \le N \le 10^5

1 \le \text{amount of petrol, distance} \le 10^9
```

Output Format

An integer which will be the smallest index of the petrol pump from which we can start the tour.

Sample Input

```
3
1 5
10 3
3 4
```

Sample Output

```
1
```

Explanation

We can start the tour from the second petrol pump.

CANDIDATE ANSWER

Language used: Python 3

```
1 #
2 # Complete the 'truckTour' function below.
3 #
\boldsymbol{4} # The function is expected to return an INTEGER.
5 # The function accepts 2D INTEGER ARRAY petrolpumps as parameter.
6 #
8 def truckTour(petrolpumps):
   # Write your code here
     nb_pumps = len(petrolpumps)
     for start in range(nb_pumps):
        max_pump = start + nb_pumps
          tank = 0
         i = start
14
         while i < max pump:
              tank += petrolpumps[i % nb_pumps][0]
              next_pump = petrolpumps[i % nb_pumps][1]
             if tank >= next_pump:
                  tank -= next pump
              else:
                   break
              i +=1
         if i == max_pump:
24
              return start
     return -1
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	Success	0	0.0408 sec	9.39 KB
Testcase 2	Easy	Hidden case	Success	10	0.0447 sec	9.58 KB
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Testcase 4	Easy	Hidden case	Success	10	0.0489 sec	9.49 KB	
Testcase 5	Easy	Hidden case	Success	10	2.7084 sec	29.1 KB	
Testcase 6	Easy	Hidden case	Success	10	3.9139 sec	29 KB	
Testcase 7	Easy	Hidden case	Success	10	3.3451 sec	29.1 KB	
Testcase 8	Easy	Hidden case	Success	10	2.6535 sec	29.1 KB	
Testcase 9	Easy	Hidden case	Success	10	0.9587 sec	29 KB	
Testcase 10	Easy	Hidden case	Success	10	1.4648 sec	29 KB	
Testcase 11	Easy	Hidden case	Success	10	2.0263 sec	29.1 KB	
Testcase 12	Easy	Hidden case	Success	10	5.8505 sec	29.1 KB	
Testcase 13	Easy	Hidden case	Success	10	1.828 sec	29.1 KB	
No Comments							

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