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Test Name: Mock Test

Taken On: 29 Oct 2021 12:16:36 IST

Time Taken: 27 min 35 sec/ 33 min

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Invited by: Ankush

Invited on: 29 Oct 2021 12:16:28 IST

Skills Score:

Tags Score: Algorithms 120/120

Core CS 120/120

Data Structures 120/120

Queues 120/120

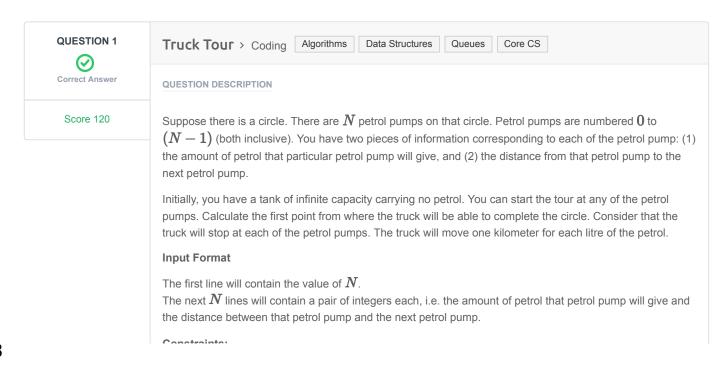
100% score 35 se 120/120

scored in **Mock Test** in 27 min 35 sec on 29 Oct 2021 12:16:36 IST

Recruiter/Team Comments:

No Comments.

Question Descrip	tion Time Taken	Score	Status
Q1 Truck Tour > Coding	27 min 26 sec	120/ 120	Ø



```
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: C++

```
1 /*
   * Complete the 'truckTour' function below.
* The function is expected to return an INTEGER.
5 * The function accepts 2D INTEGER ARRAY petrolpumps as parameter.
8 int truckTour(vector<vector<int>>> petrolpumps) {
   int nb_pumps = petrolpumps.size();
     for (int start=0; start < nb_pumps; start++) {</pre>
      int i(start);
         int max_pump(start + nb_pumps);
          int tank(0), nextpump(0);
        int j(i);
14
         while(j < max_pump) {</pre>
              tank += petrolpumps[j % nb_pumps][0];
              nextpump = petrolpumps[j % nb_pumps][1];
             if(tank >= nextpump){
                  tank -= nextpump;
              else{
                  break;
              }
24
              j++;
         }
         if(j == max pump){
              return i;
      }
      return -1;
31 }
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	Success	0	0.0178 sec	8.93 KB
Testcase 2	Easy	Hidden case	Success	10	0.0248 sec	9.05 KB
Testcase 3	Easy	Hidden case	Success	10	0.017 sec	9.02 KB
Testcase 4	Easy	Hidden case	Success	10	0.0205 sec	9.02 KB
Testcase 5	Easy	Hidden case	Success	10	0.1309 sec	18.9 KB
Testcase 6	Easy	Hidden case	Success	10	0.1389 sec	19 KB
Testcase 7	Easy	Hidden case	Success	10	0.1524 sec	19.1 KB
Testcase 8	Easy	Hidden case	Success	10	0.1128 sec	19 KB
Testcase 9	Easy	Hidden case	Success	10	0.0936 sec	19 KB
Testcase 10	Easy	Hidden case	Success	10	0.1499 sec	18.8 KB
Testcase 11	Easy	Hidden case	Success	10	0.1094 sec	19.1 KB
Testcase 12	Easy	Hidden case	Success	10	0.1504 sec	19 KB
Testcase 13	Easy	Hidden case	Success	10	0.1159 sec	18.9 KB

No Comments

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