BVRIT HYDERABAD COLLEGE OF ENGINEERING FOR WOMEN

MONEY FOR NOTHING TEAM - 65

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Introduction

- Your a middle man in the widget market.
- Your job is to buy widgets from widget producer companies and sell them to the widgets consumer companies.

- Each widget consumer company has an open request for one widget for day,until some end date, and a price at which it is willing to buy the widgets.
- On the other hand each widget producer has a producer company has a start date at which it can start delivering widgets and a price at which it will deliver each widget.

Approach

- The first line input contains two integers m and n denoting the number of producers and consumer companies in the market.
- It is followed by m lines ,the ith of which contains two integers price and date ,then follows n lines ,the j th of which contains two integers price and date.

- Read and store input in the from of a list
- check-(selling price > cost price)
- check-(starting date < end date)
- if true - find profit
- find the maximum of profits

Learnings

- lists in python
- Gitlab
- laTex

Challenges

- checking the condition of prices and dates simultaneously
- pushing files into git repository

Statistics

- Number of lines of code = 29

References

- https://docs.python.org
- ACM ICPC 2017 world finals website

GIT REPO

Name	Last commit	Last update
Day2 code	Update Day2 code	3 days ago
Day3 code	Update Day3 code	2 days ago
MONEY FOR NOTHING	MONEY FOR NOTHING	2 days ago
MONEY FOR NOTHING code	Update MONEY FOR NOTHING code	2 days ago
MONEY FOR NOTHING day 3	MONEY FOR NOTHING day 3	2 days ago
PRESENTATION.tex	PRESENTATION	19 hours ago
PRESENTATION_2.pdf	PRESENTATION 2	15 hours ago
PRESENTATION_2.tex	PRESENTATION 2	15 hours ago
PRESENTATION_3.pdf	PRESENTATION 3	12 hours ago
PRESENTATION_3.tex	PRESENTATION 3	12 hours ago
Total code-moneyfornothing	Update Total code-moneyfornothing	18 hours ago
code for money for nothing pro...	money for nothing promblem-group65	2 days ago
code.0.1	Update code.0.1	37 minutes ago
code_3.money_for_nothing.tex	code 3.money for nothing	2 days ago

Project demo

code.py

function26.py

```
m,n = map(int,input("Enter no.of producer and consumer companies:").split())
producer = []
consumer = []
max = 0
for i in range(m):
    price,date = map(int,input("Enter selling price and date:").split())
    producer.append([price,date])
print(producer)

for j in range(n):
    price,date = map(int,input("Enter buying price and date:").split())
    consumer.append([price,date])
print(consumer)

for i in range(m):

    for j in range(n):

            if(consumer[j][0] > producer[i][0]):
            price_diff = consumer[j][0] - producer[i][0]
            days = consumer[j][1] - producer[i][1]
            profit = (days)*price_diff

            if(profit > max):
                max = profit
if(max > 0):
    print("total profit = ",max)
else:
    print("Total profit = 0")
```

```
dell@dell-Inspiron-3501:~/Desktop$ vim final.1.py
dell@dell-Inspiron-3501:~/Desktop$ python3 final.1.py
Enter no.of producer and consumer companies:2 2
Enter selling price and date:1 3
Enter selling price and date:2 1
[[1, 3], [2, 1]]
Enter buying price and date:3 5
Enter buying price and date:7 2
[[3, 5], [7, 2]]
total profit =  5
```

```
dell@dell-Inspiron-3501:~/Desktop$ python3 final.1.py
Enter no.of producer and consumer companies:1 2
Enter selling price and date:10 10
[[10, 10]]
Enter buying price and date:9 11
Enter buying price and date:11 9
[[9, 11], [11, 9]]
Total profit = 0
```