GBC

# Index	584
🗓 CreatedAt	@September 28, 2022
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☼ Status	Done
☰ Tags	Implementation Python
🗓 UpdatedAt	@September 28, 2022

References

Softeer

/. https://softeer.ai/practice/info.do?idx=1&eid=584

References

1. Stack

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```
import sys

n, m = map(int, sys.stdin.readline().split("\n")[0].split(" "))
rules = []
for _ in range(n):
    rules.append(list(map(int, sys.stdin.readline().split("\n")[0].split(" "))))
rules = rules[::-1]

diff = []
prev_test_h = 0
prev_rule_h = 0
for _ in range(m):
    high, rate = map(int, sys.stdin.readline().split("\n")[0].split(" "))
    while rules and prev_test_h + high >= prev_rule_h + rules[-1][0]:
        rule = rules.pop()
        if rate > rule[1]:
            diff.append(rate - rule[1])
        prev_rule_h += rule[0]
    if prev_test_h + high > prev_rule_h:
        if rate > rules[-1][1]:
            diff.append(rate - rules[-1][1])
```

```
    prev_test_h += high

print(max(diff) if diff else 0)
```