호텔

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1106번: 호텔

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1. Dynamic Programming

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1. Dynamic Programming

```
import sys


def sol():
    c, n = map(int, sys.stdin.readline().split())
    hotels = []
    for _ in range(n):
        hotels.append(list(map(int, sys.stdin.readline().split())))

    dp = [float("inf") for _ in range(c + 100)]
    dp[0] = 0
    for i in range(1, c + 100):
        for cost, customer in hotels:
            if i < customer:
                continue
            dp[i] = min(dp[i], cost + dp[i - customer])

    print(min(dp[c:]))


sol()
```