



Hotel Prices ☆

32/44 challenges solved

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Problem

Submissions

Leaderboard

In this challenge, the task is to debug the existing code to successfully execute all provided test files.

The given code defines two classes `HotelRoom` and `HotelApartment` denoting respectively a standard hotel room and a hotel apartment. An instance of any of these classes has two parameters: `bedrooms` and `bathrooms` denoting respectively the number of bedrooms and the number of bathrooms in the room.

The prices of a standard hotel room and hotel apartment are given as:

- Hotel Room: $50 \cdot \text{bedrooms} + 100 \cdot \text{bathrooms}$.
- Hotel Apartment: The price of a standard room with the same number bedrooms and bathrooms plus **100**.

For example, if a standard room costs **200**, then an apartment with the same number of bedrooms and bathrooms costs **300**.

In hotel's codebase, there is a piece of code reading the list of rooms booked for today and calculates the total profit for the hotel. However, sometimes calculated profits are lower than they should be.

Debug the existing `HotelRoom` and `HotelApartment` classes' implementations so that the existing code computing the total profit returns a correct profit.

Your function will be tested against several cases by the locked template code.

Input Format

The input is read by the provided locked code template.

In the first line, there is a single integer n denoting the number of rooms booked for today.

After that n lines follow. Each of these lines begins with a `room_type` which is either `standard` or `apartment`, and is followed by the number of bedrooms and the number of bathrooms in this room.

Constraints

- $1 \leq n \leq 100$
- There is at least **1** and at most **5** bedrooms in a room
- There is at least **1** and at most **5** bathrooms in a room

Output Format

The output is produced by the provided and locked code template. It calculates the total profit by iterating through the vector of all rooms read from the input.

Sample Input 0

```
2
standard 3 1
apartment 1 1
```



Sample Output 0

500

Explanation 0

In the sample we have one standard room with **3** bedrooms and **1** bathroom, and one apartment with one **1** bedrooms and **1** bathroom. The price for the room is $3 \cdot 50 + 100 = 250$. The price for the apartment is $50 + 100 + 100 = 250$. Thus the hotel profit is $250 + 250 = 500$ as the sum of prices of both rooms.

C++14



```
1  #include <iostream>
2  #include <vector>
3
4  using namespace std;
5
6  class HotelRoom {
7  private:
8      int bedrooms_;
9      int bathrooms_;
10
11 public:
12     explicit HotelRoom(const int bedrooms, const int bathrooms)
13         : bedrooms_{bedrooms}, bathrooms_{bathrooms} {}
14
15     virtual int get_price() const noexcept {
16         return 50 * bedrooms_ + 100 * bathrooms_;
17     }
18 };
19
20 class HotelApartment final : public HotelRoom {
21 public:
22     HotelApartment(const int bedrooms, const int bathrooms)
23         : HotelRoom{bedrooms, bathrooms} {}
24
25     int get_price() const noexcept override {
26         return HotelRoom::get_price() + 100;
27     }
28 };
29
30 int main() { ...
```

Line: 28 Col: 3

☒ Upload Code as File ☐ Test against custom input

Run Code

Submit Code



You have earned 15.00 points!

<https://www.hackerrank.com/challenges/hotel-prices/problem>

32/44 challenges solved.

73%



Congratulations

You solved this challenge. Would you like to challenge your friends?

[Next Challenge](#)**Test case 0** ✓**Test case 1** ✓**Test case 2** ✓**Test case 3** ✓**Test case 4** ✓**Test case 5** ✓**Test case 6** ✓

Compiler Message

Success

Input (stdin)

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```
2
standard 3 1
apartment 1 1{-truncated-}
```

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Expected Output

[Download](#)

```
500{-truncated-}
```

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