It's ... Shopping Time

locked

You have work very hard to get money. Now you confuse how to spend it. Why not go to mall for shopping ?
You decide to go to a mall to buy shirts, pants, and shoes. In the mall there are N different shops. Each shop contains all these three items but at different prices.
Now you have 2 habbits:
1. Buy exactly one item from every shop
2. Do not buy the same item from the current shop if you had already bought that item from the shop adjacent to the current shop.

You realize that finding money is hard, so you want to minimize the total money you spend on shopping.

Input Format

First line contain number of test cases T.
Each test case in its first line contain N denoting the number of shops in mall.
Then each of next N lines contains three space separated integers denoting cost of shirts, pants and shoes in that particular shop.

Constraints :
$1 \leq T \leq 10$
$1 \leq N \leq 10^5$
Cost of each item (shirt/pant/shoe) does not exceed 10^4

Output Format

For each test case, output the minimum cost of shopping taking the mentioned conditions into account in a separate line.

Sample Input

```
1
3
1 50 50
50 50 50
1 50 50
```

Sample Output

52

Explanation

There are many ways to get 52 as minimum cost. One way is buy shirt from first shop, pant from second shop and shirt from third shop or you can buy shirt from first shop, shoe from second shop and shirt from third shop.

Both ways , cost comes up to 1 + 50 + 1 = 52

More

C

```c
#include <stdio.h>
#include <string.h>
#include <math.h>
#include <stdlib.h>

int main() {

    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}

```

Line: 1 Col: 1

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