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# Holi at Kashmere Gate

Problem Code: **PS103**



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On the occasion of Holi, the residents of Kashmere Gate have decided that they will paint their houses in either Pink, Orange or Yellow color and not other. They have also decided that no two adjacent houses will have the same color. For house  $i$ ,  $i-1$  and  $i+1$  are the neighbors and note that the first and the last house are not neighbors.

The cost of painting a house in a particular color is different. The cost of painting the first house in color yellow maybe different than what its for painting the second house in the same color.

The residents are confused and need your help. You need to find the minimum of cost of painting the houses which satisfy the given condition.

## Input Constraints

Number of houses will contain between 1 and 20 elements, inclusive. - Each line of input for houses will have three values for cost of coloring in each color. Each value will be between 1 and 1000.

## Input:

The first line will contain the number of test cases -  $T$ . - The second line will contain an integer  $N$  that will specify how many houses are there. - Each of the following  $N$  lines will contain 3 numbers separated by space that represents the cost of painting that house in either pink, orange or yellow color.

## Output

Print  $T$  lines showing the cost of painting the houses for each test case.

## Sample Input

```
1
2
11 12 13
14 15 16
```

## Sample Output

```
26
```

Author: [c\\_akanksha28 \(/users/c\\_akanksha28\)](/users/c_akanksha28/)

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Date Added: 9-03-2020

Time Limit: 0.102 - 0.103 secs

Source Limit: 50000 Bytes

Languages: C, CPP14, JAVA, PYTH, PYTH 3.6, PYPY, CS2, PAS fpc, PAS gpc, RUBY, PHP, GO, NODEJS, HASK, rust, SCALA, swift, D,

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