23/05/2019 C - Vacation

#### **C** - Vacation

Time Limit: 2 sec / Memory Limit: 1024 MB

Score: 100 points

#### **Problem Statement**

Taro's summer vacation starts tomorrow, and he has decided to make plans for it now.

The vacation consists of N days. For each i  $(1 \le i \le N)$ , Taro will choose one of the following activities and do it on the i-th day:

- A: Swim in the sea. Gain a<sub>i</sub> points of happiness.
- B: Catch bugs in the mountains. Gain b<sub>i</sub> points of happiness.
- C: Do homework at home. Gain  $c_i$  points of happiness.

As Taro gets bored easily, he cannot do the same activities for two or more consecutive days.

Find the maximum possible total points of happiness that Taro gains.

#### **Constraints**

- All values in input are integers.
- $1 \le N \le 10^5$
- $1 \le a_i, b_i, c_i \le 10^4$

#### Input

Input is given from Standard Input in the following format:

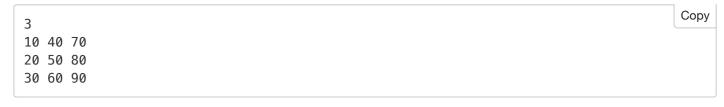
```
N
a_1
    b_1
         c_1
a_2 b_2 c_2
     b_N c_N
a_N
```

#### **Output**

Print the maximum possible total points of happiness that Taro gains.

### Sample Input 1 Copy

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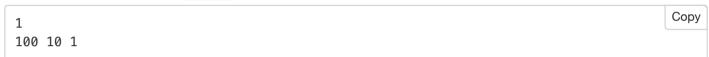


## Sample Output 1 Copy



If Taro does activities in the order C, B, C, he will gain 70 + 50 + 90 = 210 points of happiness.

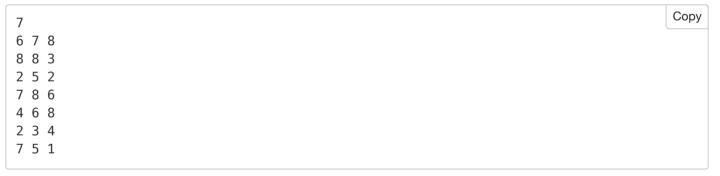
# Sample Input 2



## Sample Output 2 Copy

100 Copy

# Sample Input 3 Copy



## Sample Output 3 Copy

**С**ору

Taro should do activities in the order C, A, B, A, C, B, A.